

**ASRS Database Report Set**

**Bird or Animal Strike Reports**

---

Report Set Description ..... A sampling of reports referencing a bird or animal related strike incidents.

Update Number .....31

Date of Update.....August 7, 2024

Number of Records in Report Set ..... 50

Records within this Report Set have been screened to assure their relevance to the topic.

National Aeronautics and  
Space Administration

**Ames Research Center**  
Moffett Field, CA 94035-1000



TH: 262-7

**MEMORANDUM FOR: Recipients of Aviation Safety Reporting System Data**

**SUBJECT: Data Derived from ASRS Reports**

The attached material is furnished pursuant to a request for data from the NASA Aviation Safety Reporting System (ASRS). Recipients of this material are reminded when evaluating these data of the following points.

ASRS reports are submitted voluntarily. Such incidents are independently submitted and are not corroborated by NASA, the FAA or NTSB. The existence in the ASRS database of reports concerning a specific topic cannot, therefore, be used to infer the prevalence of that problem within the National Airspace System.

Information contained in reports submitted to ASRS may be clarified by further contact with the individual who submitted them, but the information provided by the reporter is not investigated further. Such information represents the perspective of the specific individual who is describing their experience and perception of a safety related event.

After preliminary processing, all ASRS reports are de-identified and the identity of the individual who submitted the report is permanently eliminated. All ASRS report processing systems are designed to protect identifying information submitted by reporters; including names, company affiliations, and specific times of incident occurrence. After a report has been de-identified, any verification of information submitted to ASRS would be limited.

The National Aeronautics and Space Administration and its ASRS current contractor, Booz Allen Hamilton, specifically disclaim any responsibility for any interpretation which may be made by others of any material or data furnished by NASA in response to queries of the ASRS database and related materials.

A handwritten signature in cursive script that reads "B. Hooey".

Becky L. Hooey, Director  
NASA Aviation Safety Reporting System

## CAVEAT REGARDING USE OF ASRS DATA

Certain caveats apply to the use of ASRS data. All ASRS reports are voluntarily submitted, and thus cannot be considered a measured random sample of the full population of like events. For example, we receive several thousand altitude deviation reports each year. This number may comprise over half of all the altitude deviations that occur, or it may be just a small fraction of total occurrences.

Moreover, not all pilots, controllers, mechanics, flight attendants, dispatchers or other participants in the aviation system are equally aware of the ASRS or may be equally willing to report. Thus, the data can reflect **reporting biases**. These biases, which are not fully known or measurable, may influence ASRS information. A safety problem such as near midair collisions (NMACs) may appear to be more highly concentrated in area “A” than area “B” simply because the airmen who operate in area “A” are more aware of the ASRS program and more inclined to report should an NMAC occur. Any type of subjective, voluntary reporting will have these limitations related to quantitative statistical analysis.

One thing that can be known from ASRS data is that the number of reports received concerning specific event types represents the **lower measure** of the true number of such events that are occurring. For example, if ASRS receives 881 reports of track deviations in 2010 (this number is purely hypothetical), then it can be known with some certainty that at least 881 such events have occurred in 2010. With these statistical limitations in mind, we believe that the **real power** of ASRS data is the **qualitative information** contained in **report narratives**. The pilots, controllers, and others who report tell us about aviation safety incidents and situations in detail – explaining what happened, and more importantly, **why** it happened. Using report narratives effectively requires an extra measure of study, but the knowledge derived is well worth the added effort.

# Report Synopses

ACN: 2096340 *(1 of 50)*

### Synopsis

B737-800 flight crew reported encountering multiple bird strikes and upon landing, realized there was no nose wheel steering. The flight crew found out there was a hydraulic leak and the aircraft was towed to the gate.

ACN: 2082252 *(2 of 50)*

### Synopsis

A-320 First Officer reported a bird strike while rotating for takeoff and one engine displayed high vibrations and a buzzing sound. The aircraft safely returned to the departure field for an overweight landing. Post flight inspection revealed damage to both engines.

ACN: 2078321 *(3 of 50)*

### Synopsis

Air carrier flight crew reported a bird strike during rotation. Maintenance at the destination found damage to fan blades in the right engine.

ACN: 2077581 *(4 of 50)*

### Synopsis

ERJ 170 pilot reported bird strike during takeoff climb. Returned to departure airport.

ACN: 2066920 *(5 of 50)*

### Synopsis

Air carrier flight crew reported on short final a large flock of birds climbed into the aircraft's flight path, resulting in several bird strikes and aircraft damage. The air crew continued the approach and landed without further event.

ACN: 2066201 *(6 of 50)*

### Synopsis

Air carrier crew reported multiple bird strikes during climb, then observed engine damage and cockpit odor. The flight returned to the departure airport and landed safely.

ACN: 2064858 *(7 of 50)*

### Synopsis

B737 flight crew reported an engine failure and cockpit smoke after a bird strike after takeoff. The crew returned to the departure airport and landed safely.

ACN: 2058720 *(8 of 50)*

### Synopsis

B737-700 flight crew reported a bird strike event during takeoff resulting in left wing leading edge and fan blade damage. The flight crew returned to the departure airport and landed.

ACN: 2050590 *(9 of 50)*

### Synopsis

B737 Aircraft Maintenance Technician reported not performing a required bird strike inspection as the reporter did not see evidence of the bird strike on the engine intake during a walkaround inspection of the fuselage.

ACN: 2048447 *(10 of 50)*

### Synopsis

General aviation pilot reported striking an animal on landing rollout during night conditions on the nose gear and right propeller. The pilot determined no damage to the propeller blades then flew to a maintenance base where it was determined the propeller hub had significant damage.

ACN: 2037582 *(11 of 50)*

### Synopsis

Light transport jet Captain reported striking a deer just after touchdown, at a non-towered airport during dawn VMC conditions. The Captain applied full braking but was unable to avoid the deer and sustained aircraft damage.

ACN: 2033094 *(12 of 50)*

### Synopsis

Air carrier flight crew reported bird strike on takeoff climb. Returned to departure airport and landed uneventfully.

ACN: 2032581 *(13 of 50)*

### Synopsis

B737-700 crew reported a bird strike just after rotation resulting in an engine vibration of 5.0 units. Crew ran checklists and returned to departure airport.

ACN: 2027734 *(14 of 50)*

### Synopsis

CRJ-900 flight crew reported being struck by several birds just after liftoff. The pilots returned to the departure airport. The aircraft had systems that were malfunctioning after the bird strike.

ACN: 2026233 *(15 of 50)*

### Synopsis

Recreational/Hobbyist UAS pilot reported a hawk attacked their UAS causing it to crash.

ACN: 2023578 *(16 of 50)*

### Synopsis

Air carrier Captain reported a possible bird strike during climb after takeoff and a report of momentary flame from left engine visible from the cabin. The Captain returned to the departure airport and landed safely.

ACN: 2020901 *(17 of 50)*

### Synopsis

PA-28 flight Instructor reported that while their student was performing a solo landing, they had a bird strike on final approach. During landing, the student lost aircraft control resulting in a runway excursion.

ACN: 2020439 *(18 of 50)*

### Synopsis

B767-300 crew reported a bird strike prior to V1, causing high vibration readings on engine. Crew returned to departure airport.

ACN: 2004737 *(19 of 50)*

### Synopsis

Air carrier flight crew reported a bird strike during approach which resulted in a strong odor throughout the aircraft. The flight crew completed a safe landing with the ground personnel providing appropriate support.

ACN: 2001576 *(20 of 50)*

### Synopsis

B737 flight crew reported they refused an aircraft after finding what appeared to be a bird strike in one of the engines.

ACN: 2000882 *(21 of 50)*

### Synopsis

A319 flight crew reported an inflight shutdown of engine #1 due to the indication of fire in the engine caused by a bird strike. The flight crew then performed an air turnback.

ACN: 1998787 *(22 of 50)*

### Synopsis

B737 First Officer reported receiving an oil filter bypass warning on the number one engine during climb out. A diversion was initiated resulting in a safe landing.

ACN: 1996768 *(23 of 50)*

### Synopsis

PA-28 pilot reported hitting small animal on runway during landing rollout.



ACN: 1994982 *(24 of 50)*

### Synopsis

B737-800 Captain reported a bird strike after take-off. Captain's airspeed became unreliable and both EECs were lost requiring a return to the departure airport.

ACN: 1982822 *(25 of 50)*

### Synopsis

Air carrier Ramp Lead reported mechanics started an engine with ramp personnel and equipment in close proximity.

ACN: 1976741 *(26 of 50)*

### Synopsis

ERJ-190 Pilot reported the engines would not shut down after gate arrival. Both FADECs had failed and allowed the engine to go into reverse during check list procedures for abnormal shut down.

ACN: 1942706 *(27 of 50)*

### Synopsis

B767 Flight Crew reported a bird strike during takeoff roll resulted in inability to raise the landing gear so they returned to the airport.

ACN: 1942145 *(28 of 50)*

### Synopsis

Air Carrier Flight Crew flying B737 aircraft reported bird ingestion into number one engine on takeoff rotation.

ACN: 1937796 *(29 of 50)*

### Synopsis

Jet pilot reported a near collision just before landing with a deer on the runway at OWD airport and performed a go-around.

ACN: 1935856 *(30 of 50)*

### Synopsis

A Flight Instructor reported "a bird had struck the canopy of the aircraft causing the window on the pilot's side to come off of the plastic rails and into the cabin."

ACN: 1935051 *(31 of 50)*

### Synopsis

GA pilot reported while on approach a bird strike penetrated the windshield and resulted in considerable noise and wind but pilot made a safe landing.

ACN: 1933727 *(32 of 50)*

### Synopsis

A321 pilot reported a bird strike on departure caused a fumes event and a return to the airport for an overweight landing.

ACN: 1932957 *(33 of 50)*

### Synopsis

A320 Flight Crew reported a bird strike during takeoff resulting in a crack on the First Officer's lower front edge window. The flight crew informed ATC and Dispatch of the situation and decided to return to the departure airport.

ACN: 1923961 *(34 of 50)*

### Synopsis

Captain reported a bird was ingested by the right engine, resulting in engine damage and a rejected take off. The flight crew taxied back to the ramp and turned the aircraft over to Maintenance for repair.

ACN: 1921902 *(35 of 50)*

## Synopsis

Air Carrier Flight Crew reported a bird strike on departure which resulted in engine damage and a return to departure airport.

ACN: 1919171 *(36 of 50)*

## Synopsis

Air Carrier Captain reported they received a momentary "obstacle" warning which they overcame by overriding the automation.

ACN: 1908806 *(37 of 50)*

## Synopsis

Twin Engine Pilot reported while landing at a non-towered airport a deer darted onto the runway. The deer hit the aircraft and passed under the gear and aircraft. The deer did not survive and the aircraft underwent maintenance inspection.

ACN: 1906479 *(38 of 50)*

## Synopsis

Captain reported animals and an airport vehicle on the intended landing runway. ATC directed a missed approach to a different runway.

ACN: 1900801 *(39 of 50)*

## Synopsis

Skydive Pilot reported rejecting a takeoff due to an animal crossing the runway resulting in a runway excursion.

ACN: 1897871 *(40 of 50)*

## Synopsis

Flight Crew reported a family of Canadian Geese on the runway during landing rollout.

ACN: 1897807 *(41 of 50)*

## Synopsis

B737 Flight Crew reported a bird strike right after takeoff, resulting in an angle of attack vane to shear off.

ACN: 1897774 *(42 of 50)*

## Synopsis

Air Carrier Captain reported a Canadian Goose bird strike after takeoff. The collision caused the First Officer's static system to fail. The Captain ask for and was given priority handling to return to the airport.

ACN: 1894694 *(43 of 50)*

## Synopsis

PA28R Pilot reported engine compartment fire and gear up landing.

ACN: 1893297 *(44 of 50)*

## Synopsis

B737 Flight Crew reported two large birds hit the nose cone during departure, resulting in an airspeed disagree message. The Flight Crew completed an air turn back to landing.

ACN: 1892714 *(45 of 50)*

## Synopsis

Air Carrier Flight Attendant reported a bird strike during landing. Flight crew executed a missed approach and returned for a safe landing.

ACN: 1892471 *(46 of 50)*

## Synopsis

EMB ERJ Flight Crew reported a leading edge slat failure on approach after a bird strike. The flight crew elected to perform a go around and returned to land at destination airport.

ACN: 1889558 *(47 of 50)*

## Synopsis

G280 First Officer reported multiple rejected takeoffs while attempting a maintenance check flight. The Flight Crew taxied to an FBO for parking and discovered a large bumble bee obstructing the pitot tube.

ACN: 1883849 *(48 of 50)*

## Synopsis

UAS Pilot reported that while conducting a mission with the assistance of a visual observer a flock of birds flew towards the UAS and one struck the UAS causing a crash.

ACN: 1872912 *(49 of 50)*

## Synopsis

Corporate Captain reported hitting a bird and then having to deviate.

ACN: 1871513 *(50 of 50)*

## Synopsis

B737 flight crew reported a bird strike on takeoff had sheared off the Angle of Attack vane resulting in a loss of airspeed and altitude information and a return to the departure airport.

# Report Narratives

## Time / Day

Date : 202403

Local Time Of Day : 1801-2400

## Place

Locale Reference.Airport : ZZZ.Airport

State Reference : US

Altitude.AGL.Single Value : 700

## Aircraft

Reference : X

ATC / Advisory.Tower : ZZZ

Aircraft Operator : Air Carrier

Make Model Name : B737-800

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Initial Approach

Airspace.Class B : ZZZ

## Component : 1

Aircraft Component : Hydraulic System Lines, Connectors, Fittings

Aircraft Reference : X

Problem : Failed

## Component : 2

Aircraft Component : Nose Gear

Aircraft Reference : X

Problem : Malfunctioning

## Person : 1

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Not Flying

Function.Flight Crew : Captain

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Instrument

ASRS Report Number.Accession Number : 2096340

## Person : 2

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : First Officer

Function.Flight Crew : Pilot Flying

Qualification.Flight Crew : Air Transport Pilot (ATP)  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Multiengine  
ASRS Report Number.Accession Number : 2097273

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Environment - Non Weather Related  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

On final approach to Runway XXL at ZZZ at approximately 700 ft. AGL, multiple bird strike encountered. The visual approach was continued, and landed uneventfully. Upon slowing to taxi speed there was no nose wheel steering and Crew observed leak in hydraulic fluid on SYS page of the MFD (Multi-Function Flight Display). Aircraft stopped on the runway, and eventually towed to the gate.

## Narrative: 2

On short final to [Runway] XXL in ZZZ at approximately 700 ft. AGL we had multiple bird strikes. We continued the visual approach to an uneventful landing and rollout. I was PF, at approximately 60 kt. transferred control to the Captain. While attempting to vacate the runway she realized there was no nose wheel steering. Aircraft was stopped on the runway and a hydraulic leak was found caused by the damage from the bird strike. Aircraft was eventually towed to the gate after the line was caped and passengers deplaned normally. I don't believe this event could have been prevented.

## Synopsis

B737-800 flight crew reported encountering multiple bird strikes and upon landing, realized there was no nose wheel steering. The flight crew found out there was a hydraulic leak and the aircraft was towed to the gate.



## Time / Day

Date : 202401

## Place

Locale Reference.Airport : ZZZ.Airport  
State Reference : US

## Aircraft

Reference : X  
Aircraft Operator : Air Carrier  
Make Model Name : A320  
Crew Size.Number Of Crew : 2  
Operating Under FAR Part : Part 121  
Flight Plan : IFR  
Mission : Passenger  
Flight Phase : Takeoff / Launch

## Component

Aircraft Component : Turbine Engine  
Aircraft Reference : X  
Problem : Malfunctioning

## Person

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Air Carrier  
Function.Flight Crew : First Officer  
Function.Flight Crew : Pilot Flying  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Multiengine  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
ASRS Report Number.Accession Number : 2082252  
Human Factors : Situational Awareness

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Deviation / Discrepancy - Procedural : Weight And Balance  
Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy  
Anomaly.Ground Event / Encounter : Person / Animal / Bird  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.General : Maintenance Action  
Result.Flight Crew : Returned To Departure Airport  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Environment - Non Weather Related

Contributing Factors / Situations : Human Factors  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

On takeoff from ZZZ Runway XXC we hit birds above V1 in the process of rotation. I was flying and saw the birds come out of the lower right to left. I did not hear any impact or notice anything abnormal upon their impact. After we completed our rotation I heard a buzzing sound with associated vibrations. I notified the Captain that we had hit birds as he didn't know what was causing the strange sound and vibrations. We noticed high vibrations on the #1 engine N1 (~5.5). The Captain notified Tower we needed to return to ZZZ due to a bird strike. We decided this would be the safest course of action. There were no ECAM (Electronic Centralized Aircraft Monitor) actions but we knew the airplane was damaged due to the higher than normal vibrations on the #1 engine and loud buzzing sound. The aircraft was climbing normally and producing normal thrust. I flew the airplane as the Captain ran the overweight landing checklist, notified the passengers, the flight attendants, Dispatch and ZZZ ops of our air return. The Captain then sent and received our flaps-full overweight landing aero data information. We then completed the approach checklist. As we were working through the above items we flew a right traffic pattern and visual approach to the longest Runway XYL from which we performed a smooth landing. After landing we selected the brake fans on and taxied using normal procedures to the gate. Mechanics came up to the flight deck and told us that both engines had received damage. We thought the #2 engine had not been damaged due to seemingly normal vibrations. The Captain wrote up the discrepancies for the bird strikes and overweight landing. There is really no way to avoid a bird strike at rotation. The best way to prevent future bird strikes would be to implement measures that keep birds away from the airport at ZZZ. I have also seen coyotes on the runways/taxiways at ZZZ. As far as this event goes I am happy with our performance implementing CRM and decision making resulting in the safe outcome of the flight.

## Synopsis

A-320 First Officer reported a bird strike while rotating for takeoff and one engine displayed high vibrations and a buzzing sound. The aircraft safely returned to the departure field for an overweight landing. Post flight inspection revealed damage to both engines.

## Time / Day

Date : 202308

Local Time Of Day : 1201-1800

## Place

Locale Reference.Airport : ZZZ.Airport

State Reference : US

Altitude.AGL.Single Value : 0

## Environment

Light : Daylight

Ceiling : CLR

## Aircraft

Reference : X

ATC / Advisory.Tower : ZZZ

Aircraft Operator : Air Carrier

Make Model Name : EMB ERJ 170/175 ER/LR

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Nav In Use : GPS

Nav In Use : FMS Or FMC

Flight Phase : Takeoff / Launch

Airspace.Class C : ZZZ

## Component

Aircraft Component : Turbine Engine

Aircraft Reference : X

Problem : Malfunctioning

## Person : 1

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Flying

Function.Flight Crew : First Officer

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine

ASRS Report Number.Accession Number : 2078321

Human Factors : Situational Awareness

## Person : 2

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Not Flying  
Function.Flight Crew : Captain  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Multiengine  
ASRS Report Number.Accession Number : 2078285  
Human Factors : Situational Awareness

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Ground Event / Encounter : Person / Animal / Bird  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.General : Maintenance Action

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Environment - Non Weather Related  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

We were cleared for takeoff off of ZZZ's Runway XX. Approximately 5 to 6 kts before V1, we took a bird strike to the right side of the airplane and ultimately ingested a bird into the right engine (discovered on the ground at ZZZ1). At the time of the situation we were unsure where the bird strike occurred on the airplane. The only thing me and the captain agreed upon once airborne was that there was definitely a bird strike. We informed ZZZ tower of the situation and they asked us if we required any assistance. I looked to the Captain and we decided we would continue to ZZZ1 as planned. We decided on this due to the fact that the airplane was operating normally, there were no abnormal vibrations, and there were no indications of engine fault. We landed in ZZZ1 without any issues and upon completion of the walk around I personally did not see any indications of a birdstrike. However, we did write up the birdstrike in the Maintenance log per company policy. After Maintenance inspected the airplane, they concluded that there was indeed damage to the right engine. Including damaged fan blades and stator vanes. As well as some remains of some type of bird. The airplane was taken out of service, we swapped planes, and continued on our way to ZZZ2. Obviously, there's nothing we can do about encountering a bird strike just a few knots prior to decision speed. However, this experience has been a real learning lesson for me. As a First Officer, I do plenty of walk arounds and I like to think, and pride myself on always doing a thorough job. However, it's obvious in this situation that maybe I was so amped up on adrenaline, maybe thinking about something else at the exact moment when I was on the right side of the aircraft, or maybe I was looking so hard for evidence of what just happened that I came up short of finding anything. Truthfully, I was quite embarrassed after maintenance discovered some pretty significant information that I completely missed. I also learned the importance of why we do so many walk arounds and why we are constantly always double checking each other. I talked to the Captain about this learning experience and we also discussed the reasoning behind having so many layers of safety with my walk around, the next FO's walk around, and potentially just doing a double check/show the captain what you are seeing. As well as my second walk around, as the airplane was left alone momentarily...unfortunately it was too late for that as MX had already taken the plane out of service. Overall a really good learning experience and now I know what a bird strike feels like, sounds like, and looks like! And I can take that with me through the rest of my career.

## Narrative: 2

Heard a soft thud as we passed through a flock of three small birds during the high speed regime of the takeoff roll out of ZZZ. No loss of thrust or anything else detected that would justify a high speed rejected takeoff. Reported the suspected strike to ATC. Enroute we observed no high engine vibrations or out of tolerance indications, and we didn't suspect any other significant damage so we elected to continue to ZZZ1. No evidence of a strike or damage was reported during the post flight exterior inspection. I still wrote it up in the maintenance logbook. The First Officer was operating the next flight in that aircraft and reached out to inform me that maintenance found damage - bent fan blades and blood splatter in one of the engines. I should've done an exterior postflight inspection as well. Especially in these kinds of situations it's probably best to have as many eyes as possible looking for damage on the aircraft. Had I not written it up, or had maintenance missed the damage as well, it could've been a bad situation for the following flights in that aircraft.

## Synopsis

Air carrier flight crew reported a bird strike during rotation. Maintenance at the destination found damage to fan blades in the right engine.

## Time / Day

Date : 202304

Local Time Of Day : 1801-2400

## Place

Locale Reference.ATC Facility : ZZZ.Tower

State Reference : US

Altitude.MSL.Single Value : 1200

## Aircraft

Reference : X

ATC / Advisory.Tower : ZZZ

Aircraft Operator : Air Carrier

Make Model Name : EMB ERJ 170/175 ER/LR

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Mission : Passenger

Flight Phase : Takeoff / Launch

Airspace.Class B : ZZZ

## Component

Aircraft Component : Turbine Engine

Aircraft Reference : X

Problem : Malfunctioning

## Person

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Captain

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Air Transport Pilot (ATP)

ASRS Report Number.Accession Number : 2077581

## Events

Anomaly.Aircraft Equipment Problem : Critical

Anomaly.Deviation / Discrepancy - Procedural : Clearance

Anomaly.Inflight Event / Encounter : Bird / Animal

Detector.Person : Flight Crew

When Detected : In-flight

Result.Flight Crew : Landed As Precaution

Result.Flight Crew : Returned To Departure Airport

Result.Flight Crew : Landed in Emergency Condition

Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Primary Problem : Aircraft

## Narrative: 1

Operating Flight from ZZZ to ZZZ1 on Aircraft X, we struck a large bird on what was believed at the time to be the left side of the airplane. A few seconds after the VNAV callout at around 1200 MSL, we heard a loud bang on the left side of the aircraft, followed by an increase in engine sound from the number 1 engine. No further abnormal noises or indications were heard or seen. As a precaution, I decided we would return to ZZZ. We informed ATC and [requested priority handling]. The FO (First Officer) and I set the airplane up for an approach to [Runway] XXL in ZZZ. We had a normal approach and landing. Fire trucks were also rolled as a precaution. We received our gate information and taxied back to the gate. Upon parking at the gate, the FO and I conducted a walk around and discovered we had ingested a bird into the number 1 engine. Multiple fan blades were observed to be cracked or warped from the bird strike.

## Synopsis

ERJ 170 pilot reported bird strike during takeoff climb. Returned to departure airport.

## Time / Day

Date : 202312

## Place

Locale Reference.Airport : ZZZ.Airport

State Reference : US

Altitude.MSL.Single Value : 5750

## Environment

Flight Conditions : VMC

## Aircraft

Reference : X

ATC / Advisory.Tower : ZZZ

Aircraft Operator : Air Carrier

Make Model Name : B737 Undifferentiated or Other Model

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Final Approach

Airspace.Class B : ZZZ

## Person

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : First Officer

Function.Flight Crew : Pilot Not Flying

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine

Experience.Flight Crew.Last 90 Days : 143.37

Experience.Flight Crew.Type : 712.15

ASRS Report Number.Accession Number : 2066920

## Events

Anomaly.Inflight Event / Encounter : Bird / Animal

Detector.Person : Flight Crew

When Detected : In-flight

Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Environment - Non Weather Related

Primary Problem : Environment - Non Weather Related

## Narrative: 1



On short approach, 100-200 ft. AGL, flight crew spotted a large flock of birds, possibly geese, slightly below the aircraft's glide-path. The pilot flying attempted to avoid the birds; however, the flock climbed into the aircraft's path at the last moment. The aircraft suffered several bird strikes including the windshield, number two engine, standby pitot tube, and wing leading edges. The pilot flying continued the approach and landed without event.

## Synopsis

Air carrier flight crew reported on short final a large flock of birds climbed into the aircraft's flight path, resulting in several bird strikes and aircraft damage. The air crew continued the approach and landed without further event.

## Time / Day

Date : 202312  
Local Time Of Day : 1201-1800

## Place

Locale Reference.Airport : ZZZ.Airport  
State Reference : US  
Altitude.MSL.Single Value : 8000

## Environment

Light : Daylight

## Aircraft

Reference : X  
ATC / Advisory.TRACON : ZZZ  
Aircraft Operator : Air Carrier  
Make Model Name : B737-800  
Crew Size.Number Of Crew : 2  
Operating Under FAR Part : Part 121  
Flight Plan : IFR  
Mission : Passenger  
Flight Phase : Climb  
Airspace.Class B : ZZZ

## Component

Aircraft Component : Engine  
Aircraft Reference : X  
Problem : Malfunctioning

## Person

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Air Carrier  
Function.Flight Crew : Pilot Not Flying  
Function.Flight Crew : Captain  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
Qualification.Flight Crew : Multiengine  
Qualification.Flight Crew : Instrument  
Experience.Flight Crew.Last 90 Days : 200  
Experience.Flight Crew.Type : 12250  
ASRS Report Number.Accession Number : 2066201  
Human Factors : Situational Awareness  
Human Factors : Troubleshooting

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Flight Deck / Cabin / Aircraft Event : Smoke / Fire / Fumes / Odor  
Anomaly.Inflight Event / Encounter : Bird / Animal

Detector.Person : Flight Crew  
When Detected : In-flight  
Result.Flight Crew : Returned To Departure Airport

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Environment - Non Weather Related  
Contributing Factors / Situations : Human Factors  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

During initial climb about 8,000 ft. MSL we had multiple bird strikes in the #1 Engine. There was obviously engine damage indicated by high vibrations and the smell of a bird being ingested. We [requested priority handling] and returned to ZZZ and landed without incident.

## Synopsis

Air carrier crew reported multiple bird strikes during climb, then observed engine damage and cockpit odor. The flight returned to the departure airport and landed safely.

## Time / Day

Date : 202312

Local Time Of Day : 1201-1800

## Place

Altitude.MSL.Single Value : 1000

## Environment

Light : Daylight

## Aircraft

Reference : X

ATC / Advisory.Tower : ZZZ

Aircraft Operator : Air Carrier

Make Model Name : B737 Undifferentiated or Other Model

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Climb

## Component

Aircraft Component : Engine

Aircraft Reference : X

Problem : Failed

## Person : 1

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Captain

Function.Flight Crew : Pilot Flying

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Air Transport Pilot (ATP)

Experience.Flight Crew.Last 90 Days : 60

Experience.Flight Crew.Type : 60

ASRS Report Number.Accession Number : 2064858

Human Factors : Situational Awareness

Human Factors : Troubleshooting

## Person : 2

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : First Officer

Function.Flight Crew : Pilot Not Flying

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
Experience.Flight Crew.Last 90 Days : 150  
Experience.Flight Crew.Type : 8000  
ASRS Report Number.Accession Number : 2064853  
Human Factors : Situational Awareness  
Human Factors : Troubleshooting

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Flight Deck / Cabin / Aircraft Event : Smoke / Fire / Fumes / Odor  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.Flight Crew : Returned To Departure Airport  
Result.Flight Crew : Landed in Emergency Condition

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Environment - Non Weather Related  
Contributing Factors / Situations : Human Factors  
Primary Problem : Aircraft

## Narrative: 1

During takeoff at approximately 1,000 ft. after flap retraction from Flaps 5 to Flaps 1 we ingested a bird into the #1 Engine. Aircraft started vibrating excessively and #1 Engine overtemped. In the process of evaluating our condition the cockpit filled with smoke. We [requested priority handling] and performed memory items for smoke and fumes then started the QRC and QRH for Engine Separation Severe Damage Checklist. At this time, we started a left turn to a downwind for a return to Runway XX. We informed the Flight Attendants that we had the engine failure and were returning to ZZZ. Made a PA to Passengers. We landed Flaps 15 southeast on Runway XX, stopped on the runway to have Crash Rescue check us out then taxied to the gate under our own power.

## Narrative: 2

Engine failure #1 Engine due to bird ingestion. Ran checklists, returned to ZZZ for Flaps 15 single engine landing.

## Synopsis

B737 flight crew reported an engine failure and cockpit smoke after a bird strike after takeoff. The crew returned to the departure airport and landed safely.

## Time / Day

Date : 202311

Local Time Of Day : 1801-2400

## Place

Locale Reference.Airport : ZZZ.Airport

State Reference : US

## Environment

Light : Dusk

## Aircraft

Reference : X

ATC / Advisory.Tower : ZZZ

Aircraft Operator : Air Carrier

Make Model Name : B737-700

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Takeoff / Launch

Airspace.Class C : ZZZ

## Component : 1

Aircraft Component : Fan Blade

Aircraft Reference : X

Problem : Malfunctioning

## Component : 2

Aircraft Component : Wing Leading Edge

Aircraft Reference : X

Problem : Malfunctioning

## Person : 1

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Not Flying

Function.Flight Crew : Captain

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Instrument

Experience.Flight Crew.Last 90 Days : 180

Experience.Flight Crew.Type : 5500

ASRS Report Number.Accession Number : 2058720

## Person : 2

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Air Carrier  
Function.Flight Crew : First Officer  
Function.Flight Crew : Pilot Flying  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Multiengine  
ASRS Report Number.Accession Number : 2059925

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Ground Event / Encounter : Person / Animal / Bird  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.Flight Crew : Returned To Departure Airport  
Result.Flight Crew : Landed in Emergency Condition  
Result.Air Traffic Control : Provided Assistance

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Environment - Non Weather Related  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

Normal takeoff on Runway XXL at ZZZ. On takeoff rotation felt/heard a bang/bump. Takeoff continued. Landing Gear/Flaps retracted per normal takeoff profile. Followed LNAV PATH to clear terrain and leveled off at 17,000 ft. Initial idea between FO and Captain was a blown main gear tire. There was a slight increase in engine noise and vibration on climbout, but no abnormal engine indications. When power retarded at level off engine noise/vibration returned to normal. Immediately following rotation there was an abnormal smell in the cockpit/cabin for two to three minutes that cleared after that time. We immediately notified Tower of our suspected blown tire and requested a runway inspection to confirm our suspicion. Flight Attendants called the flight deck and described the smell/noise/vibration described above. While waiting for runway inspection findings we held over the ZZZ VOR at 15,000 ft. I requested the Flight Attendants to attempt to view the flap area to do a damage assessment. They reported back that multiple Passengers witnessed multiple bird strikes. We talked to Dispatch through Company communications to coordinate a diversion to our departure point of ZZZ. Departure Control got back to us and reported 10 dead birds were discovered on/near the runway near our estimated rotation point. No aircraft tire remnants were discovered, and we determined the event was indeed a bird strike. We [requested priority handling] and requested Crash/Fire Rescue to meet the aircraft at our intended runway turn-off (High Speed Taxiway 1). We received vectors for the ILS to Runway XX at ZZZ and landed without incident. Crash/Fire Rescue met the aircraft and on Ground Control frequency we requested an inspection of the aircraft with emphasis on smoke/fire/leakage of flammable liquids etc. They discovered no such issues and we taxied under our own power to Gate XX at ZZZ. Post flight exterior inspection revealed multiple bird strikes on the left wing leading edge and #1 Engine. Multiple bent fan blades on the #1 Engine were observed. Logbook writeup was completed by the Captain. Passengers and Flight Attendants were kept aware of our progress throughout the event. Suggestions: No birds were observed prior to the bird strike. Lighting conditions were dark dusk/almost night. During the event we discussed

what non-normal checklists we should/could reference. No abnormal engine indications were observed throughout the event. While debriefing the event with the First Officer we reference the Engine Limit or Surge or Stall QRH Checklist and discovered the bullet point: Abnormal engine noises are heard, possibly with airframe vibration. In retrospect, this QRH checklist should have been referenced. Further, out of an abundance of caution we could have run the One Engine Inoperative Landing QRH Checklist. This could have been appropriate even though both engines continued to operate to prepare us in the event of an engine shutdown/malfunction prior to landing.

## Narrative: 2

During rotation on Runway XXL at ZZZ the aircraft experienced a slight thud and slight settling on what I perceived at the time to be on the left side of the aircraft. Since I was flying the aircraft, I verbalized this to the Captain, and he verified the sound. The aircraft was flying normally, and both engine instruments appeared to be normal. We both initially thought it was a tire issue. The aircraft flew normally, and normal checklists were flown through 10,000 ft. To me, it seemed that one or both of the engines were very slightly louder than normal. But no air frame vibration was noted, and the engine instruments were normal. I brought this up to the Captain and he said he could not hear it at the time. Most likely because the sound was extremely slight. At this time the Flight Attendants called us, and they said they could smell something and some of the passengers may have seen some birds on takeoff. The smell dissipated quickly. We discussed this complex issue and the Captain decided to enter holding and coordinate with the Tower to have a runway sweep conducted and he then coordinate with Dispatch. We were told that approximately eight quail were found on the runway. The Captain elected to return to ZZZ. The Captain flew the landing and following landing rollout, the Fire Chief inspected the aircraft and did not notate any damage. We taxied back to the gate. Suggestions: Upon post flight debrief, we discussed the incident and determined we possibly should have run the Engine Limit, or Surge or Stall QRH Checklist. Based on one of the condition notes for abnormal engine noises

## Synopsis

B737-700 flight crew reported a bird strike event during takeoff resulting in left wing leading edge and fan blade damage. The flight crew returned to the departure airport and landed.



## Time / Day

Date : 202311

## Place

Altitude.AGL.Single Value : 0

## Aircraft

Reference : X

Aircraft Operator : Air Carrier

Make Model Name : B737 Undifferentiated or Other Model

Operating Under FAR Part : Part 121

Flight Phase : Parked

Maintenance Status.Maintenance Items Involved : Inspection

## Person

Location Of Person : Gate / Ramp / Line

Reporter Organization : Air Carrier

Function.Maintenance : Technician

ASRS Report Number.Accession Number : 2050590

Human Factors : Troubleshooting

Human Factors : Situational Awareness

## Events

Anomaly.Aircraft Equipment Problem : Critical

Anomaly.Deviation / Discrepancy - Procedural : Maintenance

Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy

Anomaly.Inflight Event / Encounter : Bird / Animal

Detector.Person : Maintenance

When Detected : Routine Inspection

Result.General : None Reported / Taken

## Assessments

Contributing Factors / Situations : Aircraft

Contributing Factors / Situations : Human Factors

Contributing Factors / Situations : Procedure

Primary Problem : Human Factors

## Narrative: 1

During walkaround inspection of the fuselage, witnessed small red spot on lefthand side of radome lower section. Approximately the size of a quarter. Wasn't sure if it was a bird strike or a bug. cleaned off area and continued to inspect lefthand side of fuselage.

Detailed inspection of leading edge, under wing area, landing gear, trailing edge flap area and exterior of engine cowling. Found no other evidence of bird strike. Meanwhile not seeing, the bird excrement and small amount of blood at the 5 o'clock position of the #1 engine intake, which required a bird strike inspection. I had slowed down and taken the time to read further into the MM (Maintenance Manual), it drove me to look at another MM. After inspecting the area in question, I had not seen any damage at all, and cleaned the small spot on the radome, per the first MM.

## Synopsis

B737 Aircraft Maintenance Technician reported not performing a required bird strike inspection as the reporter did not see evidence of the bird strike on the engine intake during a walkaround inspection of the fuselage.

## Time / Day

Date : 202309

Local Time Of Day : 0601-1200

## Place

Altitude.AGL.Single Value : 0

## Environment

Light : Night

## Aircraft

Reference : X

Make Model Name : Light Transport, Low Wing, 2 Turboprop Eng

Crew Size.Number Of Crew : 1

Flight Phase : Landing

## Component

Aircraft Component : Propeller Hub

Aircraft Reference : X

Problem : Malfunctioning

## Person

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Personal

Function.Flight Crew : Pilot Flying

ASRS Report Number.Accession Number : 2048447

Human Factors : Communication Breakdown

Human Factors : Troubleshooting

Human Factors : Situational Awareness

Communication Breakdown.Party1 : Flight Crew

Communication Breakdown.Party2 : Maintenance

## Events

Anomaly.Aircraft Equipment Problem : Critical

Anomaly.Deviation / Discrepancy - Procedural : Maintenance

Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy

Anomaly.Deviation / Discrepancy - Procedural : FAR

Anomaly.Ground Event / Encounter : Person / Animal / Bird

Detector.Person : Flight Crew

When Detected : In-flight

Result.General : Maintenance Action

Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft

Contributing Factors / Situations : Airport

Contributing Factors / Situations : Environment - Non Weather Related

Contributing Factors / Situations : Human Factors  
Contributing Factors / Situations : Procedure  
Primary Problem : Procedure

## Narrative: 1

The evening before this flight, while rolling out after a night landing, I struck a coyote with the nose gear and RH prop. Other than some fur and blood, there was no visible damage to the air frame or prop. After reviewing the maintenance manual info on prop strikes, I determined the airplane was airworthy in the absence of any nicks or bends in the prop blades. I flew one leg to my maintenance shop to have my mechanics confirm that the airplane was airworthy. My mechanic wasn't sure that my prop was tracking correctly, so I agreed to have the prop sent to manufacturer for inspection. Manufacturer found significant damage to the prop hub. My first hand observation while hitting the coyote was that it impacted the nose gear, with some minor fragments hitting the RH prop. Based upon the damage to the prop hub, a bigger chunk hit the prop than I had realized. Studies show that eyewitnesses are unreliable, and I guess my perception that the nose gear took the major impact was wrong. In retrospect, even in the absence of any prop nicks or bends, I should not have been so confident that the prop strike involved only small fragments.

## Synopsis

General aviation pilot reported striking an animal on landing rollout during night conditions on the nose gear and right propeller. The pilot determined no damage to the propeller blades then flew to a maintenance base where it was determined the propeller hub had significant damage.

## Time / Day

Date : 202309  
Local Time Of Day : 0601-1200

## Place

Locale Reference.Airport : ZZZ.Airport  
State Reference : US  
Altitude.AGL.Single Value : 0

## Environment

Flight Conditions : VMC  
Light : Dawn

## Aircraft

Reference : X  
ATC / Advisory.CTAF : ZZZ  
Aircraft Operator : Fractional  
Make Model Name : Light Transport, Low Wing, 2 Turbojet Eng  
Crew Size.Number Of Crew : 2  
Operating Under FAR Part : Part 91  
Flight Plan : IFR  
Mission : Ferry / Re-Positioning  
Flight Phase : Landing

## Person

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Fractional  
Function.Flight Crew : Pilot Flying  
Function.Flight Crew : Captain  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
Qualification.Flight Crew : Multiengine  
Qualification.Flight Crew : Instrument  
ASRS Report Number.Accession Number : 2037582  
Human Factors : Communication Breakdown  
Human Factors : Situational Awareness  
Communication Breakdown.Party1 : Flight Crew  
Communication Breakdown.Party2 : Ground Personnel

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Conflict : Ground Conflict, Critical  
Anomaly.Ground Event / Encounter : Person / Animal / Bird  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.Flight Crew : Took Evasive Action  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Airport  
Contributing Factors / Situations : Environment - Non Weather Related  
Contributing Factors / Situations : Human Factors  
Primary Problem : Airport

## Narrative: 1

Moments after landing on Runway XX in ZZZ, 2 deer were spotted running left to right approximately 10-50 ft. from the runway edge. Both pilots called them out, and evasive action in the form of full braking was attempted. I'd considered a go-around momentarily, but decided against this, as I deemed the risk of still striking the large animal, then bringing the aircraft back in the air with potentially serious damage was not worth it. The deer were approximately 800 ft. from the touchdown point when the aircraft struck the trailing deer with the nose/right fuselage/RH wing leading edge at approximately 60-80 kts. IAS. The leading deer made it across the runway without any incident. A call by the SIC (second in command) was made on the CTAF to notify any traffic in the area of the possibility of a runway hazard. Airport operations personnel were also notified immediately. Upon parking the airplane and executing a post flight inspection, there was damage found on the NLG (nose landing gear) RH gear door, standby IASP (Integrated Air Data and Stall Protection) probe, and RH wing inboard leading edge. The landing gear door had been fully detached at the hinge points and was later retrieved from the runway. The deer appeared to be a full grown white-tailed doe. Airport operations found the deer had crawled its way off of the right side of the runway on its own. Both pilots identified the wildlife entering the runway edge almost immediately after touchdown. Given the identification of the animals being present did not occur until almost immediately after touchdown, and the proximity and rate of closure to the animals, made it essentially impossible to avoid the strike with any reasonable or safe intervention. Both pilots called out the hazard. I informed the PM (pilot monitoring) that full braking was being applied and that a go-around would not be attempted. Airport operations later informed us that they usually do a runway inspection and clear out wildlife early in the morning. This had not yet been done prior to our arrival. On the part of the crew, a potentially viable mitigation strategy could be to call the operations of uncontrolled fields where the risk of wildlife being present is high, and ask that an inspection or clearing could be attempted prior to our arrival. Additionally, extra vigilance should be taken when going into these types of airports. This is a threat that could have been discussed in the cockpit during the approach briefing so that the heightened awareness required for this type of situation was informed and understood.

## Synopsis

Light transport jet Captain reported striking a deer just after touchdown, at a non-towered airport during dawn VMC conditions. The Captain applied full braking but was unable to avoid the deer and sustained aircraft damage.

## Time / Day

Date : 202309

Local Time Of Day : 1201-1800

## Place

Locale Reference.ATC Facility : ZZZ.Tower

State Reference : US

Altitude.MSL.Single Value : 500

## Environment

Light : Daylight

## Aircraft

Reference : X

ATC / Advisory.Tower : ZZZ

Aircraft Operator : Air Carrier

Make Model Name : B737-700

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Climb

Airspace.Class C : ZZZ

## Component

Aircraft Component : Turbine Engine

Aircraft Reference : X

Problem : Malfunctioning

## Person : 1

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Not Flying

Function.Flight Crew : First Officer

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Instrument

Experience.Flight Crew.Last 90 Days : 130

Experience.Flight Crew.Type : 6420

ASRS Report Number.Accession Number : 2033094

## Person : 2

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Captain

Function.Flight Crew : Pilot Flying

Qualification.Flight Crew : Air Transport Pilot (ATP)  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Multiengine  
ASRS Report Number.Accession Number : 2033097

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.General : Maintenance Action  
Result.Flight Crew : Requested ATC Assistance / Clarification  
Result.Flight Crew : Returned To Departure Airport  
Result.Flight Crew : Landed in Emergency Condition  
Result.Air Traffic Control : Provided Assistance  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Airport  
Contributing Factors / Situations : Environment - Non Weather Related  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

While operating Flight ZZZ-ZZZ1 we encountered a bird strike on the Number 1 Engine during initial climb. We push off the gate on time and proceeded to taxi to Runway XXR. Upon reaching the runway, we completed before takeoff checklist and took off at (XA00). On climb out approximately 500 ft. MSL we hit a large bird on the Number #1 Engine. I noticed the roll back on the N1 with about 5 to 6 compressor stalls. Captain immediately reduced power to about 60% N1 and engine continue to operate normally. ATC was busy talking so we squawked and were able to advise ATC and requested vectors back for landing. We discussed our options including running the engine failure and/or severe damage checklist but since the engine was operating, we decided not to. We did run performance numbers for a Flaps 15 landing as a precaution. We requested about a 10-15 mile final to allow us to string the approach and do the necessary briefings including the overweight landing and brake cooling info once on the ground. Approach and landing were uneventful. We exited the runway and had the Fire Department Crew inspect the engine before proceeding to the gate.

## Narrative: 2

We took off on Runway XXR at ZZZ. At about 500' AGL as we were making a turn to our assigned heading of 210, we took a bird in the #1 Engine. We heard a loud thud, then the #1 Engine rolled back momentarily, then had 4 to 5 compressor stalls, I thought we were going to lose it, so I reduced power to about 60% N1 and the compressor stalls ceased. We continued a turn, Tower was busy, so we squawked on the transponder. When he asked, we told Tower what happened, was [requested priority handling], and would be returning. He gave us an initial heading and altitude. The #1 Engine continued to run smooth at the reduced power. There was a burnt burn smell in cockpit and cabin. The First Officer and I discussed our options and decided not to shut it down. We continued our vectors for about a 15-mile final. We ran landing data for a Flaps 15 in case the engine decided later to quit. We made a normal touchdown and stopped momentarily for CFR (Crash Fire Rescue) to do a quick visual inspection. They confirmed debris or stains on



engine cowl. After two minutes or so we shut down #1 Engine, then continued to the gate. We ran brake cooling data while taxiing to gate and it said MQTW not exceeded. At the gate we notified Dispatch, Maintenance Control, Dispatch Manager, and ZZZ Tower had requested a call. Logbook entries were made for engine, and overweight landing. Suggestion: Paint aircraft like an owl.

## Synopsis

Air carrier flight crew reported bird strike on takeoff climb. Returned to departure airport and landed uneventfully.

## Time / Day

Date : 202309

Local Time Of Day : 1801-2400

## Place

Locale Reference.ATC Facility : ZZZ.Tower

State Reference : US

Altitude.MSL.Single Value : 50

## Environment

Light : Daylight

## Aircraft

Reference : X

ATC / Advisory.Tower : ZZZ

Aircraft Operator : Air Carrier

Make Model Name : B737-700

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Takeoff / Launch

## Component

Aircraft Component : Turbine Engine

Aircraft Reference : X

Problem : Malfunctioning

## Person : 1

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Flying

Function.Flight Crew : Captain

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Instrument

ASRS Report Number.Accession Number : 2032581

## Person : 2

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : First Officer

Function.Flight Crew : Pilot Not Flying

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine  
ASRS Report Number.Accession Number : 2032586

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.General : Maintenance Action  
Result.General : Flight Cancelled / Delayed  
Result.Flight Crew : Returned To Departure Airport  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Environment - Non Weather Related  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

Hello, while taking off on Runway XXL in ZZZ during rotation the Number 2 Engine ingested a bird. The engine reached a vibration of 5.0 and we ran the appropriate QRH and normal checklists. After contacting Dispatch and Maintenance we decided to uneventfully return to ZZZ. We inspected the engine at the gate seeing 2 fan blades bent.

## Narrative: 2

Bird strike during takeoff from Runway XXL. Right engine indicated in excess of 5.0. Complied with QRH. Coordinated with Dispatch, Maintenance and Ops. Returned to ZZZ. No adverse Passenger reaction noted. No injuries to Passengers or Crew.

## Synopsis

B737-700 crew reported a bird strike just after rotation resulting in an engine vibration of 5.0 units. Crew ran checklists and returned to departure airport.

## Time / Day

Date : 202308

Local Time Of Day : 1201-1800

## Place

Locale Reference.Airport : ZZZ.Airport

State Reference : US

Altitude.AGL.Single Value : 0

## Aircraft

Reference : X

ATC / Advisory.Tower : ZZZ

Aircraft Operator : Air Carrier

Make Model Name : Regional Jet 900 (CRJ900)

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Takeoff / Launch

Airspace.Class C : ZZZ

## Component : 1

Aircraft Component : Stall Protection System

Aircraft Reference : X

Problem : Malfunctioning

## Component : 2

Aircraft Component : Rudder Feel System

Aircraft Reference : X

Problem : Malfunctioning

## Component : 3

Aircraft Component : Attitude Indicator(Gyro/Horizon/ADI)

Aircraft Reference : X

Problem : Malfunctioning

## Person : 1

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Not Flying

Function.Flight Crew : Captain

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Flight Instructor

ASRS Report Number.Accession Number : 2027734

Human Factors : Workload

Human Factors : Time Pressure

## Person : 2

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Air Carrier  
Function.Flight Crew : Pilot Flying  
Function.Flight Crew : First Officer  
Qualification.Flight Crew : Multiengine  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
ASRS Report Number.Accession Number : 2027736  
Human Factors : Time Pressure  
Human Factors : Workload

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.Flight Crew : Overcame Equipment Problem  
Result.Flight Crew : Requested ATC Assistance / Clarification  
Result.Flight Crew : Returned To Departure Airport  
Result.Flight Crew : Landed in Emergency Condition  
Result.Flight Crew : FLC complied w / Automation / Advisory  
Result.Air Traffic Control : Provided Assistance

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Environment - Non Weather Related  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

On takeoff rotation on Runway XX. We heard and felt multiple bird strikes. Immediately followed by a Stall Fail caution and rudder limit fault status message. The FO said they felt vibration in the flight controls as well. We informed tower, and declared our intention to return to ZZZ with departure. We requested to level off at 3000 and vectors for time to run checklist, inform dispatch and prepare flight attendants and passengers. During that time we lost the airspeed indication. When we were ready for the approach we informed departure and received vectors on to the approach. Landed and taxied with out further incident. Cause: Bird strike on takeoff, birds not seen until during bird strike. Small birds.

## Narrative: 2

Completed all before takeoff checklist items, lined up on runway. Cleared for takeoff on Runway XX out of ZZZ. Right after rotation no more than 1-2 seconds multiple sounds of bird strikes from both the left and the right side of the flight deck were experienced. The birds were of slightly larger than a softball in size. Immediately following the strike EICAS indicated a Stall Fail caution message along with a Rudder Lim Fault status message. The controls felt a slight vibration, I the FO was flying the aircraft at the time. The captain at the time informed approach that we were going to level off at 3000 feet, the initially cleared altitude. We cleaned up the aircraft during the remainder of the climb and at this time the captain handed over the radios over to me the PF at the time. He informed dispatch of the situation and the intent to return to ZZZ. ATC then gave us [priority

handling] and gave us the time to set up the aircraft. We ran all checklists, got vectors from ATC to keep us within an acceptable distance from the airport and set the aircraft up for the ILS back into RWY XX at ZZZ. During this time we noticed that we lost all airspeed indications as well. We performed all required procedures and I the FO continued as PF and handed the radios back to the CA. We landed without further incident and taxied off the runway, informed ground and tower the information they requested. Cause: Bird strike on rotation. Multiple sides of aircraft followed by Stall Fail caution, Rudder Limit Fault, airspeed loss and control vibration.

## Synopsis

CRJ-900 flight crew reported being struck by several birds just after liftoff. The pilots returned to the departure airport. The aircraft had systems that were malfunctioning after the bird strike.

## Time / Day

Date : 202308  
Local Time Of Day : 0601-1200

## Place

Locale Reference.Airport : ZZZ.Airport  
State Reference : US  
Altitude.AGL.Single Value : 250

## Environment

Flight Conditions : VMC  
Weather Elements / Visibility.Visibility : 10  
Light : Daylight  
Ceiling : CLR

## Aircraft

Reference : X  
Aircraft Operator : Recreational / Hobbyist (UAS)  
Make Model Name : DJI Mini 2  
Crew Size.Number Of Crew : 1  
Operating Under FAR Part : Recreational Operations / Section 44809 (UAS)  
Mission : Recreational / Hobbyist (UAS)  
Flight Phase : Hovering (UAS)  
Airspace.Class G : ZZZ  
Operating Under Waivers / Exemptions / Authorizations (UAS) : N  
Weight Category (UAS) : Small  
Configuration (UAS) : Multi-Rotor  
Flight Operated As (UAS) : VLOS  
Flight Operated with Visual Observer (UAS) : N  
Control Mode (UAS) : Manual Control  
Flying In / Near / Over (UAS) : People / Populated Areas  
Type (UAS) : Purchased  
Number of UAS Being Controlled (UAS).Number of UAS : 1

## Person

Location Of Person : Outdoor / Field Station (UAS)  
Reporter Organization : Recreational / Hobbyist (UAS)  
Function.Flight Crew : Person Manipulating Controls (UAS)  
Qualification.Flight Crew : Remote Pilot (UAS)  
Experience.Flight Crew.Total (UAS) : 50  
Experience.Flight Crew.Last 90 Days (UAS) : 15  
Experience.Flight Crew.Type (UAS) : 15  
ASRS Report Number.Accession Number : 2026233  
Analyst Callback : Attempted

## Events

Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Person : UAS Crew

When Detected : In-flight  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Environment - Non Weather Related  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

I was flying in Location A across the street from the park. A hawk came out from hiding in the sun and attacked my drone. It was damaged and fell 250 feet. I recovered the parts. It looks like it is a complete loss.

## Synopsis

Recreational/Hobbyist UAS pilot reported a hawk attacked their UAS causing it to crash.



## Time / Day

Date : 202308  
Local Time Of Day : 0601-1200

## Place

Locale Reference.ATC Facility : ZZZ.TRACON  
State Reference : US  
Relative Position.Distance.Nautical Miles : 15  
Altitude.MSL.Single Value : 6000

## Environment

Light : Daylight

## Aircraft

Reference : X  
ATC / Advisory.TRACON : ZZZ  
Aircraft Operator : Air Carrier  
Make Model Name : B737-700  
Crew Size.Number Of Crew : 2  
Operating Under FAR Part : Part 121  
Flight Plan : IFR  
Mission : Passenger  
Flight Phase : Climb

## Component

Aircraft Component : Engine  
Aircraft Reference : X  
Problem : Malfunctioning

## Person

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Air Carrier  
Function.Flight Crew : Pilot Flying  
Function.Flight Crew : Captain  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
Qualification.Flight Crew : Multiengine  
Qualification.Flight Crew : Instrument  
Experience.Flight Crew.Last 90 Days : 150  
ASRS Report Number.Accession Number : 2023578  
Human Factors : Troubleshooting  
Human Factors : Confusion  
Human Factors : Situational Awareness

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Flight Deck / Cabin / Aircraft Event : Smoke / Fire / Fumes / Odor  
Anomaly.Inflight Event / Encounter : Bird / Animal

Detector.Person : Flight Crew  
When Detected : In-flight  
Result.Flight Crew : Returned To Departure Airport

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Environment - Non Weather Related  
Contributing Factors / Situations : Human Factors  
Contributing Factors / Situations : Procedure  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

Possible bird strike while climbing on takeoff. No engine abnormal indications. Landed back into ZZZ. Flight Attendant saw flame shoot out the left engine momentarily. No indication of bird strike after returning to the gate. Possible compressor stall.

## Synopsis

Air carrier Captain reported a possible bird strike during climb after takeoff and a report of momentary flame from left engine visible from the cabin. The Captain returned to the departure airport and landed safely.

## Time / Day

Date : 202307

Local Time Of Day : 0601-1200

## Place

Locale Reference.Airport : ZZZ.Airport

State Reference : US

Relative Position.Distance.Nautical Miles : 0

Altitude.AGL.Single Value : 0

## Environment

Flight Conditions : VMC

Weather Elements / Visibility.Visibility : 10

Light : Daylight

Ceiling.Single Value : 12000

## Aircraft

Reference : X

ATC / Advisory.Tower : ZZZ

Aircraft Operator : FBO

Make Model Name : PA-28 Cherokee/Archer/Dakota/Pillan/Warrior

Crew Size.Number Of Crew : 1

Operating Under FAR Part : Part 91

Flight Plan : None

Mission : Training

Flight Phase : Landing

Airspace.Class D : ZZZ

## Person

Location Of Person : Gate / Ramp / Line

Reporter Organization : FBO

Function.Flight Crew : Instructor

Qualification.Flight Crew : Commercial

Qualification.Flight Crew : Flight Instructor

Experience.Flight Crew.Total : 667

Experience.Flight Crew.Last 90 Days : 170

Experience.Flight Crew.Type : 430

ASRS Report Number.Accession Number : 2020901

Human Factors : Situational Awareness

Human Factors : Distraction

Human Factors : Confusion

Human Factors : Training / Qualification

Human Factors : Workload

Human Factors : Time Pressure

## Events

Anomaly.Ground Excursion : Runway

Anomaly.Ground Event / Encounter : Object

Anomaly.Ground Event / Encounter : Loss Of Aircraft Control

Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.General : Flight Cancelled / Delayed  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Environment - Non Weather Related  
Contributing Factors / Situations : Human Factors  
Primary Problem : Ambiguous

## Narrative: 1

In the morning, after discussing with my student and combing through various weather reports to make an appropriate go/no-go decision, I made the determination to send my student for a solo, takeoffs and landings, to a full stop. This was to be her second solo in a 141 program. According to the ASOS and METAR, weather conditions for the morning were appropriate to a pattern solo - (according to the ASOS - called prior to walk around) winds variable at 5 knots, 10 sm of visibility, pressure 30.09, density altitude 1,675 feet. We conducted an analysis of the aircraft's performance data, located in the "performance and limitations" section of the POH to account for the day's aircraft performance. Following that, we filled up the tanks from the local FBO, and proceeded with the aircraft walk around. There were not any items damaged on the plane prior to takeoff and the aircraft was not due for any maintenance. After that, my student entered the aircraft, and departed for her second solo. After her runup was complete at the runup area, I watched her taxi for the first circuit in the pattern of the day. She was cleared for takeoff, and proceeded to takeoff and make left closed traffic. I was monitoring her progress on foreflight, and listening to her radio calls on the tower frequency. After being cleared to land, she appeared stabilized throughout her descent both on flightaware (ADS-B), and visually, and made her first of 4 landings. She adhered to my instructions, decelerating to a full stop before taxiing back to the runway for full length departures. Her second takeoff was also very stable, and once again commenced left closed traffic. On the second circuit in the pattern, she was extended downwind before being cleared for another full stop landing. While she was outside of my direct sightline at this time, in reviewing the ADS-B data, she appears to have initiated a stabilized descent at airspeeds consistent with her training. About 50 feet over the runway and prior to touchdown, my student states she "hit something and there was a loud thud on the right side of the plane." Upon debrief, she states that she believes it was a bird or possible drone strike. In the moments following the strike, she says was unfocused and continued with her landing instead of proceeding with a go-around procedure. While attempting to regain control, she suffered from a runway excursion, and hit a Runway Distance Remaining sign while departing the runway. The tower sent assistance, and she was able to get out of the grass and taxi back to the ramp under her own power. Upon post flight walk around, there was substantial damage to the aircraft's left wing, and what appeared to be an impact point of the bird strike on the right side of the cowling. According to her training, she has logged countless takeoffs, landings, and go-arounds - consistently demonstrating premier procedural knowledge of traffic pattern operations, and radio communications. During her pre-landing brief, she states to expect the go-around and has previously demonstrated that she will not hesitate to increase the aircraft's power, and initiate a go-around. My analysis is that while she was stabilized on her final descent, the strike and resulting loud thud redirected her attention and caused her to lose focus during the most critical phase of flight. Following this accident, we will be conducting 3 lessons exclusively working on go-arounds, and go-

around procedures to ensure this does not happen again. During those lessons, I plan to use all the tools at my disposal to continue simulating real world distractions.

## Synopsis

PA-28 flight Instructor reported that while their student was performing a solo landing, they had a bird strike on final approach. During landing, the student lost aircraft control resulting in a runway excursion.

## Time / Day

Date : 202307

Local Time Of Day : 1201-1800

## Place

Locale Reference.Airport : ZZZZ.Airport

State Reference : FO

Altitude.MSL.Single Value : 0

## Aircraft

Reference : X

Aircraft Operator : Air Carrier

Make Model Name : B767-300 and 300 ER

Crew Size.Number Of Crew : 3

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Takeoff / Launch

## Component

Aircraft Component : Turbine Engine

Aircraft Reference : X

Problem : Malfunctioning

## Person : 1

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Flying

Function.Flight Crew : Captain

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Instrument

ASRS Report Number.Accession Number : 2020439

## Person : 2

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : First Officer

Function.Flight Crew : Pilot Not Flying

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Instrument

ASRS Report Number.Accession Number : 2019914

Human Factors : Workload

Human Factors : Communication Breakdown

Human Factors : Situational Awareness

Communication Breakdown.Party1 : Flight Crew  
Communication Breakdown.Party2 : ATC

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Deviation - Speed : All Types  
Anomaly.Ground Event / Encounter : Person / Animal / Bird  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.General : Flight Cancelled / Delayed  
Result.General : Maintenance Action  
Result.Flight Crew : Requested ATC Assistance / Clarification  
Result.Flight Crew : Returned To Departure Airport  
Result.Flight Crew : Returned To Gate  
Result.Flight Crew : Landed in Emergency Condition  
Result.Air Traffic Control : Provided Assistance  
Result.Air Traffic Control : Issued New Clearance  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Environment - Non Weather Related  
Contributing Factors / Situations : Human Factors  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

On Day 0 myself as pilot flying, First Officer (FO) Person A as pilot monitoring and an FO and Captain (CA) as additional operating crew were operating Aircraft X from ZZZZ to ZZZZ1. All preflight operations were normal and a normal taxi out to the active Runway XXR was accomplished. Upon entering Runway XXR and cleared for take-off, normal procedures were accomplished and the take-off roll was normal. After 80 kts. thrust set was called and verified and approximately before V1 a flock of birds crossed the aircraft's path from right to left. Approximately 6 to 12 dark colored birds were observed by myself crossing in front of the aircraft. V1 was called and a normal rotation was accomplished when I noted a non normal (louder, different) sound from the right side of the aircraft and realized that we had a potential bird strike on the right side/engine of the aircraft. The other FO identified the engine vibration was climbing from approximately 0.8-4.7 during the climb out. I stopped the climb at 2000 ft. and pulled power back to reduce the engine vibration. We [requested priority handling] with ATC and we requested to return to ZZZZ airport and landing on XXR a take-off, decent, and approach checklist was completed and then I instructed the other FO to advise the purser to have everyone stay seated with seat belts and our intent to return and land at ZZZZ airport. We then prepared for landing at ZZZZ Runway XXR, all checklists and landing procedures were verified by all crew and normal landing was accomplished on XXR with no abnormalities. A normal taxi to stand x was accomplished with Crash Fire Rescue (CFR) following the aircraft as a precaution to the parking stand. Upon shutting down and all checklists complete a full walk around was done. Damage to the right engine was identified and photos were taken confirming that a bird strike did happen. I then called the Company and spoke to Dispatch to let them know of the situation and we were all safe on the ground at ZZZZ. I asked Dispatch to pass along message information to the Chief Pilot, Fleet Manager, and operations of the situation. After a bit I received a phone call from the Duty Pilot asking about the situation and I explained everything. Then asked the Duty Pilot to pass along all information to the

chief pilot, fleet manager, and operations of the current situation. From there we as a full crew (all pilots and Flight Attendant's) left the aircraft and I turned the aircraft over to Maintenance.

## Narrative: 2

At XA45Z, we were taking off Runway XXR out of ZZZZ as we noticed a flock of birds flying in front of us from right to left. We were accelerating through 80 kts. when I Pilot Monitoring (PM) noticed that our thrust setting was set but our engine vibration on the right engine was about two units higher than on the left engine. As we accelerated through V1 and Vr, we lifted off and could see the engine vibration steadily increase from 3.8 units to 4.1 units by the time we hit 1000 ft. AFE and selected VNAV and continued climbing. In the climb they observed a continued increase in the engine vibration and the unusual noise coming from the right side. The maximum observed vibration was 4.7 units when the Pilot flying (PF) still hand flying reduced the thrust levers and wanted to amend our initial departure clearance which had us climb to 4000ft. I told ATC that we want to turn back to ZZZZ and land because we assumed a bird strike on take-off and that we are requesting 2000 ft. for now. On the climb out we switched frequencies and had some issues communicating to ATC of our intentions. So, we [requested priority handling], got a new heading and lower altitude. The third pilot in the observer seat called the Flight Attendants and advised them to stay seated and that we will return back to ZZZZ in a matter of minutes, due to an expected bird strike and high engine vibration on the right side. Also, while that was happening we were descending to 2000 ft. at flaps 5 and momentarily exceeded the flap limit speed of 230 kts. Retracted the flaps from 5 to 1, slowed down, leveled off, then, we then turned on the center autopilot and went back to flaps 5. After about two right turn vectors we were now on downwind for Runway XXR and confirmed that we were below max landing weight. So, I got the landing performance, set up and identified the ILS and completed the following checklists together with the Captain (CA)/PF. After take-off, descent, and approach checklist. We were cleared for the ILS XXR and landed at XB00Z and were back at the gate at XB04Z. Cause - Bird strike on take-off causing the increasing engine vibration on the right engine and the associated unusual noise coming from the right hand side. The unusual event, the language barrier, the startle effect, hand flying and amended clearances, increased everybody's workload tremendously. A high speed rejection would have been possible but was not necessarily the safest course of action given the heavy weight, high 41 degree Celsius outside air temperature and no other abnormal indication than a higher engine vibration. Suggestions - I should have spoken up sooner to suggest the usage of the autopilot. It would have helped to reduce the workload, significantly. Also, we should have [requested priority handling] sooner, this could have reduced the amount of talking on the radio, which then would have freed up more time to do other things, such as setting up the FMC, completing the checklists, briefing the approach and the Flight Attendants, instead of doing a couple of things at once. I should have slowed down, taken a deep breath and made sure everything gets completed in a methodical and not rushed manner.

## Synopsis

B767-300 crew reported a bird strike prior to V1, causing high vibration readings on engine. Crew returned to departure airport.



## Time / Day

Date : 202305

Local Time Of Day : 1201-1800

## Place

Locale Reference.ATC Facility : ZZZ.TRACON

State Reference : US

Altitude.MSL.Single Value : 11000

## Environment

Flight Conditions : VMC

## Aircraft

Reference : X

ATC / Advisory.TRACON : ZZZ

Aircraft Operator : Air Carrier

Make Model Name : B737 Next Generation Undifferentiated

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Descent

Airspace.Class E : ZZZ

## Component

Aircraft Component : Engine

Aircraft Reference : X

Problem : Malfunctioning

## Person : 1

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Not Flying

Function.Flight Crew : Captain

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Instrument

Experience.Flight Crew.Total : 3750

Experience.Flight Crew.Last 90 Days : 166

Experience.Flight Crew.Type : 3750

ASRS Report Number.Accession Number : 2004737

Human Factors : Workload

Human Factors : Time Pressure

Human Factors : Troubleshooting

## Person : 2

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Air Carrier  
Function.Flight Crew : First Officer  
Function.Flight Crew : Pilot Flying  
Qualification.Flight Crew : Multiengine  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
Qualification.Flight Crew : Instrument  
Experience.Flight Crew.Total : 2691  
Experience.Flight Crew.Last 90 Days : 185  
Experience.Flight Crew.Type : 2691  
ASRS Report Number.Accession Number : 2004747  
Human Factors : Troubleshooting  
Human Factors : Time Pressure  
Human Factors : Workload

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Flight Deck / Cabin / Aircraft Event : Illness / Injury  
Anomaly.Flight Deck / Cabin / Aircraft Event : Smoke / Fire / Fumes / Odor  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.Flight Crew : Landed in Emergency Condition  
Result.Flight Crew : Requested ATC Assistance / Clarification  
Result.Flight Crew : Overcame Equipment Problem  
Result.Air Traffic Control : Provided Assistance

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Environment - Non Weather Related  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

While descending into ZZZ on the ZZZZZ RNAV STAR in the vicinity of ZZZZZ1 intersection at 11,000 ft., I was startled by the noise of a very loud bang. I immediately looked at the engine instruments and all was normal. I stated to the First Officer (FO) that I thought we may have hit a bird and he agreed with my assessment. I contacted the cabin crew to get their input. Both forward flight attendants (FA) heard the noise but didn't know what it was. The aft flight attendants did not hear the noise. After hanging up the interphone, I began to smell a noxious odor. The flight attendants called me back to report a noxious smell throughout the entire aircraft. I actioned the [smoke and fumes] QRC immediate action items and both the first officer and I donned our full face oxygen masks. I requested priority handling with ATC and was given priority for landing. Since we had already briefed the approach to Runway XXL, I elected to continue to that runway even though it was the shortest runway given that we had no mechanical issues and it would allow us to get the airplane on the ground the quickest. I sent an ACARS message to dispatch informing them of the situation. I then called the flight attendants and gave them a standard briefing informing them of the situation. I continued running the QRC while the first officer flew the airplane and communicated with ATC. We completed the first steps and abandoned the checklist after ATC cleared us for the approach and I felt my attention was better focused on backing up the FO and monitoring the approach and landing. After

clearing the runway, Airport Rescue and Firefighting (ARFF) inspected our aircraft. After speaking with them, I felt it was safe to continue to the gate. A flight attendant called to report that a passenger was experiencing sickness and had vomited as a result of the smell. I asked if the passenger needed EMTs to meet us. The flight attendant informed me the passenger declined medical treatment. Upon arrival at the gate, we completed the required maintenance reports and flight operations contacts. Upon external inspection the remains of a large bird was observed forward of the nose wheelwell and throughout the right engine.

## Narrative: 2

While on the ZZZZZ arrival into ZZZ, we were level crossing ZZZZZ1 at 11,000 ft. and 300 kts, we hit a large brown bird. For about just a flash, I saw a large Brown/blackish bird in front of the aircraft and go under us. It hit underneath the nose and made a loud bang. I didn't think it went toward the engine, but a few seconds after the hit, we smelled a burnt odor. We knew that it must have gone through an engine. We scanned the engine instruments and everything was normal. Because the odor got worse and was reported by the flight attendants (FA) as well, we completed the [smoke and fumes] checklist. As part of the checklist we put on the O2 masks. This caused difficulty through out the rest of the flight. After completing the Immediate action items, I continued to fly and talk to ATC, while the Captain (CA) handled the situation with dispatch, the FAs. We continued the arrival and were given priority for the approach to XXL. After landing, the Airport Rescue and Firefighting (ARFF) only found a mark on the nose with no other damage. The odor remained in the aircraft even after getting parked at the gate.

## Synopsis

Air carrier flight crew reported a bird strike during approach which resulted in a strong odor throughout the aircraft. The flight crew completed a safe landing with the ground personnel providing appropriate support.

## Time / Day

Date : 202305  
Local Time Of Day : 1801-2400

## Place

Locale Reference.Airport : ZZZ.Airport  
State Reference : US  
Altitude.AGL.Single Value : 0

## Environment

Flight Conditions : VMC

## Aircraft

Reference : X  
Aircraft Operator : Air Carrier  
Make Model Name : B737 Undifferentiated or Other Model  
Crew Size.Number Of Crew : 2  
Operating Under FAR Part : Part 121  
Flight Plan : IFR  
Flight Phase : Parked

## Component

Aircraft Component : Turbine Engine  
Aircraft Reference : X  
Problem : Malfunctioning

## Person : 1

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Air Carrier  
Function.Flight Crew : Pilot Flying  
Function.Flight Crew : First Officer  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Multiengine  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
Experience.Flight Crew.Last 90 Days : 124  
Experience.Flight Crew.Type : 262  
ASRS Report Number.Accession Number : 2001576  
Human Factors : Other / Unknown  
Human Factors : Troubleshooting  
Human Factors : Communication Breakdown  
Communication Breakdown.Party1 : Flight Crew  
Communication Breakdown.Party2 : Maintenance

## Person : 2

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Not Flying  
Function.Flight Crew : Captain  
Qualification.Flight Crew : Multiengine  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
Experience.Flight Crew.Last 90 Days : 149  
Experience.Flight Crew.Type : 899  
ASRS Report Number.Accession Number : 2001682  
Human Factors : Communication Breakdown  
Communication Breakdown.Party1 : Flight Crew  
Communication Breakdown.Party2 : Maintenance

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Person : Flight Crew  
When Detected : Aircraft In Service At Gate  
Result.General : Release Refused / Aircraft Not Accepted  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Primary Problem : Aircraft

## Narrative: 1

The Captain conducted a walk around when we got to the aircraft and noticed what looked like a few small bird strikes on the wing, wheel, nose, and ingested into the number 2 engine. He was told it was just a bug. I went out and had a look also. We stopped the blades and had a very close look and noticed the splatter into the core was very chunky and there was no way it was just a bug. The aircraft was also due to fly over mountainous terrain, at max weight, and over remote areas. We both did not feel comfortable taking this plane unless it had been inspected properly and chose the safest option.

## Narrative: 2

During the walk around, I noticed evidence of at least a dozen bird strikes on the forward fuselage, right wing, right main gear, and the number two engine core stator vanes. All of the bird strikes appeared non damaging, but the one on the core engine concerned me. I made an electronic logbook entry and contacted Operations to have Maintenance come out. The contract maintainer and I stopped the windmilling fan and inspected the contamination on the engine stator blade. He stated that it was insect residue in his opinion. I was able to touch the residue with my fingers and found it to be substantial and raised above the stator blade. There was more material present than could have come from a bug. In my opinion, a small bird was ingested by the core engine. Later, my First Officer examined the engine and reached the same conclusion. I told the maintenance contractor that I felt a bore scope inspection was necessary. I contacted Dispatch and Maintenance Control. The Maintenance Control engine representative repeated the contact maintainer's impression that the problem was large insects rather than birds. I told him I did not agree, that I believed a bird had been ingested, and that I would like to have the engine bore scoped. The Maintenance Control representative said Maintenance Control's position was that they could defer the bore scope inspection for a certain number of hours and cycles. Such action would allow us to fly the aircraft to ZZZ. I discussed the matter with my FO (First Officer) and we both went out and inspected the aircraft and engines.

My FO had similar concerns about the safety of operating the aircraft under the proposed deferral. I called the Chief Pilot and we established a conference call that included Maintenance Control and Dispatch. I explained that while Maintenance Control could defer the bore scope, my FO and I felt uncomfortable with departing in an airplane loaded to within a few percent of maximum take-off weight into high terrain and a long stretch of remote terrain, all with a questionable engine. I decided to refuse the aircraft. While we waited in the terminal for an updated schedule, we noticed that the pilot team who arrived to operate another Air Carrier flight were asked if they would accept the aircraft I had just refused. That Captain also declined to take the aircraft.

## Synopsis

B737 flight crew reported they refused an aircraft after finding what appeared to be a bird strike in one of the engines.

## Time / Day

Date : 202305

Local Time Of Day : 1201-1800

## Place

Locale Reference.Airport : ZZZZ.Airport

State Reference : FO

Altitude.AGL.Single Value : 1000

## Aircraft

Reference : X

Aircraft Operator : Air Carrier

Make Model Name : A319

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Initial Climb

Flight Phase : Climb

## Component

Aircraft Component : Turbine Engine

Aircraft Reference : X

Problem : Failed

## Person : 1

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Flying

Function.Flight Crew : Captain

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Instrument

ASRS Report Number.Accession Number : 2000882

## Person : 2

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Check Pilot

Function.Flight Crew : Pilot Not Flying

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine

ASRS Report Number.Accession Number : 2000558

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Deviation - Track / Heading : All Types  
Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Automation : Aircraft Other Automation  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.General : Flight Cancelled / Delayed  
Result.Flight Crew : Landed in Emergency Condition  
Result.Flight Crew : Returned To Departure Airport  
Result.Flight Crew : Requested ATC Assistance / Clarification  
Result.Flight Crew : Inflight Shutdown  
Result.Air Traffic Control : Provided Assistance  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Primary Problem : Aircraft

## Narrative: 1

Flight was scheduled as Aircraft X on Day 0 from ZZZZ to ZZZ. Scheduled takeoff time was XA:20 local ZZZZ-time and scheduled landing time was XF:09 ZZZ-time. This was my 10th flight in the left seat during my Captain's IOE after flying as an A320 FO (First Officer) for approximately 5 years. Check Pilot was in the FO seat. Our clearance was on the ZZZZZ to ZZZZZ1 up to FL380. Preflight and taxi were normal. Takeoff was made by me from the Captain's seat off Runway XX. It was a flaps 3 flex mode takeoff with a slight headwind. Takeoff was normal through thrust reduction altitude. Just after thrust reduction at just over 1,000 ft. AGL, I maneuvered the aircraft to avoid a flock of approximately six what appeared to be large black birds that passed under the right wing. Just a few seconds later, a flock of approximately four of the same large black birds passed over the left wing, and at least one of those birds was ingested by the number one engine. There was a loud bang at the sound of the impact, the left engine immediately began vibrating loudly, and the Master Warning continuous repetitive chime went off. I said "my aircraft," continued flying aircraft, and engaged autopilot 1. The Check Pilot analyzed the situation and determined it was not a quick action item or ECAM exception. After a brief discussion, we decided that I would continue flying the aircraft and the Check Pilot would run the ECAM actions. At engine out acceleration altitude I selected the speed to 180 kt. and requested flaps 1 and continued climbing. We stayed at this speed and configuration until beginning the approach. We continued flying the ZZZZZ through the turn to the north for a short time while the Check Pilot worked through ECAM actions. We eventually reached 8000 ft. and leveled off. The Check Pilot and I each spoke to the FAs (Flight Attendant) over the cabin interphone during the first couple minutes after the bird strike. The FAs told us what they knew about the incident from their perspective. By the second time we spoke, the Check Pilot had put out the engine fire and I notified the FAs of this. The Check Pilot, who is fluent in the country's language and could communicate well with ATC, handled radio communications. All of his communications were in English. The Check Pilot [requested priority handling] as we were flying north on the ZZZZZ. Departure Control cleared us for a right turn direct to the airport, but the Check Pilot requested a more southerly heading to line us up for an approach, and also requested a descent to 6,000 ft. The Check Pilot requested ARFF (Airport Rescue and Firefighting) equipment to be positioned at the runway. The Check Pilot completed ECAM actions and QRH follow-up actions. I activated and confirmed approach mode, changed our destination to ZZZZ, and



updated the PERF (Performance) Page with our landing weather. The Check Pilot loaded the RNP Y XY approach - ILS glideslope was out of service. The Check Pilot sent a message to Dispatch, and very calmly spoke with the FAs and passengers. He informed the FAs that we would be doing a precautionary landing back at ZZZZ. The Check Pilot gave the passengers a description of the situation and told them we were returning to ZZZZ. We ran the After Takeoff Checklist, Descent Checklist, and verified and briefed the approach. I flew towards ZZZZZ2 and flew through the inbound course to set up for a right turn to teardrop onto the inbound approach course. At some point before ZZZZZ2 inbound we leveled off at 6,000 ft. I configured with gear and flaps 3 prior to ZZZZZ3 and we ran the Before Landing Checklist. Autobrakes were medium. I landed on Runway XY and used full reverse thrust from engine number two and began braking immediately. We stopped just prior to Taxiway XX. The fire personnel looked over the aircraft and cleared us to taxi to parking. Ground Control cleared us to Gate XX where we parked the aircraft. Cause: Bird strike to the number 1 engine. Suggestions: Continue to emphasize the dangers of bird strikes.

## Narrative: 2

I am a Company Check Pilot. I was giving Operational Experience, OE, to a Captain upgrade, to include [several] location qualifications. The flight was the return flight, from ZZZZ to ZZZ, on Day 0. The Captain upgrade had already flown 8 flights and 7 landings with a previous Check Pilot, and was a previous First Officer on the A320 aircraft for approximately 5 years. Scheduled takeoff time was XA:20 local ZZZZ-time and scheduled landing time was XF:09 ZZZ-time. Our clearance was on the ZZZZZ to ZZZZZ1 up to FL380. Preflight and taxi were normal. We took off from ZZZZ at XA:31 local time from Runway XX. The takeoff was made by the Captain upgrade from the left seat. It was a normal flaps 3 flex takeoff with a slight headwind. At approximately 1,100 ft. AGL and just after thrust reduction, I saw a flock of approximately six large black birds on the right side of the aircraft. I called "birds," and the Captain upgrade maneuvered the aircraft to avoid the birds. Unfortunately, there was another flock of approximately 4 of the same birds on the left side of the aircraft, and immediately we heard a loud thump, accompanied by moderately loud vibration, followed by engine #1 fire indications. The Captain upgrade stated "my aircraft" and continued flying the aircraft. I began the strategy, after analyzing the situation. After reviewing the Quick Reference Card, QRC, I determined it was not a quick action item or ECAM exception. Following a brief discussion, as a crew, we decided that the Captain upgrade would continue to fly the aircraft and I would run the ECAM actions. Upon reaching engine out acceleration altitude, I commanded the Captain upgrade to hold 180 kt. He requested flaps 1 and continued climbing. We maintained this speed and configuration until reaching 8,000 ft. MSL, while flying the ZZZZZ departure. The flight attendants called numerous times over the cabin interphone within minutes ensuing the bird strike. They reported smoke in the aft cabin and fire in the left engine. I told them we were aware of the situation and were in the process of taking appropriate action and returning to the airport. I asked them to remain calm and I would get back to them soon as conditions permit. I continued running the ECAM actions and was able to put the fire out after discharging the first bottle. It was at this time, I [requested priority handling] with ZZZZ Approach, who cleared us to proceed direct to the airport. I then requested a south heading and descent to 6,000 ft., which enabled us to clear the local terrain. Additionally, it is the FAF intercept altitude for the RNAV Runway XY. During our thorough preflight planning from ZZZ, we became aware that the ILS was out of service in ZZZZ and not an option. Due to factors such as being fluent in the local language, I decided to handle all ATC communications, although all communications were accomplished in English. To follow suit, I then requested ARFF (Aircraft Rescue and Firefighting) equipment to meet the aircraft after landing, and completed the After-Takeoff Checklist. I accomplished the ECAM and QRH follow-up actions, then sent free text message to

Dispatch, communicated to the flight attendants to give them a quick update on the situation and informed them that we would be doing a precautionary landing at ZZZZ. To conclude, I made a PA to the passengers and prepared to complete the remaining normal checklists before landing. The Captain upgrade changed the destination and I selected the RNAV Y Runway XY. He then activated and confirmed approach mode, updated the PERF (Performance) Page with current weather conditions and flew towards ZZZZZ2, IF. The Captain upgrade informed me he intended to fly through the inbound course to set up for a right turn to teardrop onto the inbound approach course. He was level at 6,000 ft. before ZZZZZ2. We briefed the highlights of the approach and completed the Before-Landing Checklist. The Captain upgrade questioned if we should land flaps 3 or flaps full, to which I decided on flaps 3, due to single engine go-around considerations. We configured with gear, flaps 3, and medium autobrakes prior to ZZZZZ3. Since it was apparent he had good aircraft control, I made the decision to continue to let him fly the approach and land overweight. He landed on Runway XY, using full reverse thrust from engine number two along with immediate manual braking. We came to a complete stop just prior to Taxiway XX. The fire personnel looked over the aircraft, clearing us to taxi to parking. Ground Control cleared us to Gate XX where we brought the aircraft to a final stop. Although we were visually inspected by ARFF personnel, I questioned their ability to assess and conduct firefighting procedures on the aircraft. My intuition further increased after personnel arrived up in a small yellow truck, with no alert or safety flashing lights. They were in direct communication with us and Tower, where communications were in the local language. I am still perplexed by what kind of safety equipment they use, their firefighting capabilities, and what initial and recurrent training consists of. Pilots need to be aware of what to expect in case of an emergency. I am awaiting further information from the ZZZZ General Manager. Cause: Flock of birds on both sides of the aircraft. Unfortunately, airports in ZZZZ2 do not have a wildlife animal control at their airports. It would be nice if something similar to what we do in the States could be introduced in these countries.

## Synopsis

A319 flight crew reported an inflight shutdown of engine #1 due to the indication of fire in the engine caused by a bird strike. The flight crew then performed an air turnback.

## Time / Day

Date : 202305

Local Time Of Day : 0601-1200

## Place

Locale Reference.ATC Facility : ZZZ.TRACON

State Reference : US

Altitude.MSL.Single Value : 9000

## Environment

Flight Conditions : VMC

Light : Daylight

## Aircraft

Reference : X

ATC / Advisory.TRACON : ZZZ

Aircraft Operator : Air Carrier

Make Model Name : B737-800

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Climb

Flight Phase : Initial Climb

Route In Use : Vectors

Airspace.Class E : ZZZ

## Component : 1

Aircraft Component : Oil Filter

Aircraft Reference : X

Problem : Malfunctioning

## Component : 2

Aircraft Component : Turbine Engine

Aircraft Reference : X

Problem : Malfunctioning

## Person

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : First Officer

Function.Flight Crew : Pilot Not Flying

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Multiengine

ASRS Report Number.Accession Number : 1998787

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Deviation / Discrepancy - Procedural : Clearance  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Automation : Aircraft Other Automation  
Detector.Person : Flight Crew  
Were Passengers Involved In Event : N  
When Detected : In-flight  
Result.General : Maintenance Action  
Result.Flight Crew : Diverted  
Result.Flight Crew : Landed As Precaution  
Result.Flight Crew : Requested ATC Assistance / Clarification  
Result.Air Traffic Control : Provided Assistance

## Assessments

Contributing Factors / Situations : Aircraft  
Primary Problem : Aircraft

## Narrative: 1

Upon climbing out of ZZZ at approx 3,000-4,000 feet, we got a oil filter bypass light on the number 1 engine. As we got the checklist out we continued to climb and leveled off at 9,000 feet. Following the QRH procedure, it directed us to close the #1 thrust lever until the light goes out. We got all the way to idle and the light remained on. The checklist then directs you to the engine shut down checklist. We elected to keep the engine running since all the parameters were still normal. We advised ATC and diverted to ZZZ1. On final approach to Runway XXL at approximately 500 feet, we got a large bird strike just above the #2 engine. The good engine. We landed without incident and made the turnoff on Runway XYR. The #1 engine was shut down and we had Airport Rescue and Firefighting (ARFF) inspect the #1 engine. No abnormalities were noticed, and we taxied to gate with ARFF following.

## Synopsis

B737 First Officer reported receiving an oil filter bypass warning on the number one engine during climb out. A diversion was initiated resulting in a safe landing.

## Time / Day

Date : 202305

Local Time Of Day : 1801-2400

## Place

Locale Reference.Airport : ZZZ.Airport

State Reference : US

Relative Position.Distance.Nautical Miles : 0

Altitude.AGL.Single Value : 0

## Environment

Flight Conditions : VMC

Light : Night

## Aircraft

Reference : X

ATC / Advisory.UNICOM : ZZZ

Aircraft Operator : Personal

Make Model Name : PA-28 Cherokee/Archer/Dakota/Pillan/Warrior

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 91

Flight Plan : VFR

Mission : Personal

Flight Phase : Landing

Route In Use.Other

## Component

Aircraft Component : Main Gear

Aircraft Reference : X

Problem : Failed

## Person : 1

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Personal

Function.Flight Crew : Pilot Flying

Qualification.Flight Crew : Private

Experience.Flight Crew.Total : 157

Experience.Flight Crew.Last 90 Days : 38

Experience.Flight Crew.Type : 18

ASRS Report Number.Accession Number : 1996768

Human Factors : Situational Awareness

## Person : 2

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Personal

Function.Flight Crew : Pilot Not Flying

Qualification.Flight Crew : Private  
Experience.Air Traffic Control.Supervisory : 12020  
Experience.Flight Crew.Total : 225  
Experience.Flight Crew.Last 90 Days : 14  
Experience.Flight Crew.Type : 50  
ASRS Report Number.Accession Number : 1996778

## Events

Anomaly.Aircraft Equipment Problem : Less Severe  
Anomaly.Conflict : Ground Conflict, Critical  
Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy  
Anomaly.Ground Event / Encounter : Loss Of Aircraft Control  
Anomaly.Ground Event / Encounter : Person / Animal / Bird  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.Flight Crew : Took Evasive Action  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Airport  
Contributing Factors / Situations : Human Factors  
Primary Problem : Human Factors

## Narrative: 1

As sole manipulator of the controls I flew the RNAV XX practice approach into ZZZ from ZZZ1 with a safety pilot. Post-landing, during the roll-out phase suddenly several medium sized animals (large racoon, small hog, or similar) appeared on the runway directly in front of the aircraft. I applied heavier brakes while still maintaining directional control, missed one of the animals but impacted the second one with the left main gear. After impact I applied heavy brakes and right rudder to counteract the damaged left main gear which was pulling the aircraft strongly to the left. Came to a stop on the runway left of center line about 200 ft. from impact. No injuries. Unable to taxi off the runway nor push it by hand due to the gear damage, we left the strobes and beacon on and monitored the radio to advise inbound aircraft about the situation on the runway. I informed the local authorities about the situation. An aircraft came in to join the pattern and I signaled them with my flashlight from the runway while my co-pilot got on the radio to advise them of the situation. The aircraft in the pattern relayed our situation to ZZZ Approach, who had been controlling us prior to the incident. Police and fire services showed up with flashing lights on the runway to help advise any inbound traffic that there was an obstacle on the runway. A local pilot showed up with an airport tug vehicle and helped us push the aircraft off of the runway into the grass about 30 ft. west of the runway edge lighting. Contributing factors were the lack of airport fencing as well as decision to fly a straight-in approach into an untowered, rural, unfenced field at night without a low pass to scare away any wildlife which may have been present.

## Narrative: 2

I was in the right seat and not operating the aircraft. During rollout after touchdown, I saw an animal crossing the runway about 15-25 ft. in front of the aircraft. The PIC immediately began braking and missed the first animal, however, a second animal which looked like a wild boar crossed closely behind and hit the left main gear of the aircraft. The PIC was able to remain on the runway. After coming to a stop, we left the beacon and strobes

turned on for visibility, monitored CTAF, and inspected the damage. We were unable to move the aircraft off the runway under its own power or with a hand-powered tow bar. I tried to contact ZZZ Approach and guard as well as the local airport facilities but was unable. After a few minutes, I heard traffic in the pattern and advised them that the runway was unsafe. I asked them to notify ZZZ Approach. I requested police and or fire presence to ensure visible flashing lights on the runway would alert traffic. I believe a primary factor in causing this incident was the lack of fencing at the airport. We did not have a flashlight with the required number of D cell batteries in the aircraft. I do not believe this was a factor as we did have an LED flashlight, but nothing here for protection.

## Synopsis

PA-28 pilot reported hitting small animal on runway during landing rollout.

## Time / Day

Date : 202304

Local Time Of Day : 0601-1200

## Place

Locale Reference.ATC Facility : ZZZ.Tower

State Reference : US

Altitude.MSL.Single Value : 600

## Environment

Flight Conditions : IMC

Light : Daylight

## Aircraft

Reference : X

ATC / Advisory.Tower : ZZZ

Aircraft Operator : Air Carrier

Make Model Name : B737-800

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Climb

Flight Phase : Initial Climb

Route In Use : Vectors

Airspace.Class D : ZZZ

## Component : 1

Aircraft Component : Pitot-Static System

Aircraft Reference : X

Problem : Malfunctioning

## Component : 2

Aircraft Component : Airspeed Indicator

Aircraft Reference : X

Problem : Malfunctioning

## Component : 3

Aircraft Component : FADEC / TCC

Manufacturer : L/H

Aircraft Reference : X

Problem : Malfunctioning

## Component : 4

Aircraft Component : FADEC / TCC

Manufacturer : R/H

Aircraft Reference : X

Problem : Malfunctioning



## Person

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Air Carrier  
Function.Flight Crew : Check Pilot  
Function.Flight Crew : Captain  
Function.Flight Crew : Pilot Not Flying  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
Qualification.Flight Crew : Multiengine  
ASRS Report Number.Accession Number : 1994982

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Deviation - Speed : All Types  
Anomaly.Deviation / Discrepancy - Procedural : Weight And Balance  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Automation : Aircraft Other Automation  
Detector.Person : Flight Crew  
Were Passengers Involved In Event : N  
When Detected : In-flight  
Result.General : Maintenance Action  
Result.Flight Crew : Requested ATC Assistance / Clarification  
Result.Flight Crew : Returned To Departure Airport  
Result.Flight Crew : Landed in Emergency Condition  
Result.Air Traffic Control : Provided Assistance

## Assessments

Contributing Factors / Situations : Aircraft  
Primary Problem : Aircraft

## Narrative: 1

Shortly after take-off, climbing through approximately 600 ft. AGL we had a large bird strike. We lost the Captain's airspeed Indications as the bird had impacted the Captain's pitot tube and probably affected the air temperature probe, as we later on discovered loss of both engine Electronic Engine Controls (EEC's) as well. New hire First Officer (FO) was Pilot Flying (PF) with myself as Pilot Monitoring check pilot. This was the FO first PF leg. FO remained PF for the entire event. We continued the climb and flew into an overcast layer at 700 ft. AGL, climbing to approximately 2000 ft. MSL. We had the stick shaker, low speed aural alerts, loss of both flight directors. We quickly discovered the unreliable airspeed indicator. Completed some of the memory items associated with this issue. Told ATC we needed to return. We remained in IMC conditions for the remainder of the flight. Ran the checklist for unreliable airspeed. Overweight landing. Non routine landing, and subsequently ENG EEC alternate mode. We had an uneventful landing and taxi to the gate under our own power. Elected to use ATC vectors instead of holding. No injuries, no damage to aircraft other than pitot tube and possibly air temperature probe which affected the EEC's per maintenance call. Log book entries included. Bird strike with unreliable airspeed. Overweight landing. ENG EEC to alternate mode, and pulling voice recorder per company procedure. Received a phone call from ZZZ Approach Control where they filled out a bird strike paperwork via phone call with myself. Just want to say that our training works. This was the new hire FO first flying leg. Did an excellent job of maintaining aircraft

control under these particular failures. The Flight Attendants also did a great job of taking care of passengers and preparing the cabin for an unplanned return to the airport.

## Synopsis

B737-800 Captain reported a bird strike after take-off. Captain's airspeed became unreliable and both EECs were lost requiring a return to the departure airport.

## Time / Day

Date : 202303

## Place

Altitude.AGL.Single Value : 0

## Environment

Weather Elements / Visibility : Rain

## Aircraft : 1

Reference : X

Aircraft Operator : Air Carrier

Make Model Name : Light Transport, Low Wing, 2 Turbojet Eng

Operating Under FAR Part : Part 121

Flight Phase : Parked

## Aircraft : 2

Reference : Y

Make Model Name : Commercial Fixed Wing

## Person

Location Of Person : Gate / Ramp / Line

Reporter Organization : Air Carrier

Function.Ground Personnel : Ramp

ASRS Report Number.Accession Number : 1982822

Human Factors : Situational Awareness

Human Factors : Communication Breakdown

Human Factors : Confusion

Communication Breakdown.Party1 : Ground Personnel

Communication Breakdown.Party2 : Ground Personnel

## Events

Anomaly.Conflict : Ground Conflict, Critical

Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy

Anomaly.Ground Event / Encounter : Person / Animal / Bird

Detector.Person : Ground Personnel

When Detected : Aircraft In Service At Gate

## Assessments

Contributing Factors / Situations : Human Factors

Contributing Factors / Situations : Procedure

Primary Problem : Procedure

## Narrative: 1

Myself, Lead, and 2 agents were working a turnaround flight in extremely inclement weather. We were in the process of unloading luggage for Aircraft X with a belt loader lined up to the aft compartment and 2 luggage carts lined up to the belt loader. Myself and 1 agent were scanning and loading bags onto the belt loader and 1 agent in the aft

stacking luggage. We were moving bags from one of the carts to the forward compartment when I noticed the beacon suddenly started flashing. I made several comments about it to my Agent. I then noticed the aircraft parked at Gate XX had its strobe lights on, so I assumed this may be due to the lowered visibility conditions. Shortly after the beacon turned on, while still loading bags, I began noticing an uptick in noise. I knew the APU was already running, so I thought what I was hearing was the air condition system kicking on. I quickly realized that it was sounding more like an engine, but figured it must be from the plane on [Gate] XX with the strobe lights. I moved to the other side of the aircraft near Engine #2 and noticed it was fully spooling. I see no wing walkers. Nobody with wands standing at the aft of the aircraft giving the engines running signal. Nothing. I immediately called over the Supervisor and they had nothing to offer other than agreeing with me when I said I would be filing a report on this as soon as I get home. I then went into the flight deck to speak with the 2 mechanics and explain to them that they just had an engine spooling while we were servicing the aircraft and that I will be filing a safety report. The one Mechanic, asked me if you saw the beacon on, wouldn't you assume the engines running? I simply said you can explain your side when the time is necessary and have a good day. To recap, an engine was started within feet of one of my agents working in the bin of the aircraft. Had they started Engine #1, this may have been a much more gruesome outcome. They had zero spotters. Nobody waving wands warning of an engine running. We had a belt loader and 2 carts next to the aircraft, yet another Mechanic who showed up told my Agent they didn't see us working on the flight. I took pictures from all angles of the gate and challenge anyone to not notice the equipment. Then, the completely unbothered response and unbelievable disregard for the seriousness of the situation by the mechanics was frankly concerning. As professionals that have access to flight decks and aircraft turbine engines, any display of reckless behavior without immediate remorse should be terminated from their position. I unfortunately didn't get a picture or video of the engine running as I was busy trying to get a Supervisor to the gate as soon as possible. Also, I had to answer the question about which Manager I reported to. However, I am not 100% sure if that is the actual Supervisor. I do know they were the Supervisor but unsure of their last name.

## Synopsis

Air carrier Ramp Lead reported mechanics started an engine with ramp personnel and equipment in close proximity.

## Time / Day

Date : 202302

Local Time Of Day : 1801-2400

## Place

Locale Reference.Airport : ZZZ.Airport

State Reference : US

Altitude.AGL.Single Value : 0

## Environment

Flight Conditions : VMC

Light : Night

## Aircraft

Reference : X

ATC / Advisory.Ramp : ZZZ

Aircraft Operator : Air Carrier

Make Model Name : EMB ERJ 190/195 ER/LR

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Parked

Route In Use : Vectors

## Component : 1

Aircraft Component : FADEC / TCC

Manufacturer : #1

Aircraft Reference : X

Problem : Malfunctioning

## Component : 2

Aircraft Component : FADEC / TCC

Manufacturer : #2

Aircraft Reference : X

Problem : Malfunctioning

## Person

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Not Flying

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Air Transport Pilot (ATP)

ASRS Report Number.Accession Number : 1976741

Human Factors : Confusion

Human Factors : Human-Machine Interface

Human Factors : Situational Awareness  
Human Factors : Troubleshooting

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy  
Anomaly.Ground Event / Encounter : Jet Blast  
Anomaly.Ground Event / Encounter : Person / Animal / Bird  
Detector.Automation : Aircraft Other Automation  
Detector.Person : Flight Crew  
Were Passengers Involved In Event : N  
When Detected : Aircraft In Service At Gate  
Result.General : Flight Cancelled / Delayed  
Result.General : Maintenance Action

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Human Factors  
Primary Problem : Aircraft

## Narrative: 1

Upon attempting shutdown after normal landing and taxi to the gate in ZZZ, both engines would not shut down. In an attempt to verify the engines were at idle as the Full Authority Digital Electronic Control (FADEC) will not allow shutdown outside of idle, both engines spooled up in reverse and blew dust and debris on the personnel. There was no reverse indication noted on the EICAS. I called Maintenance Control/Dispatch and they were not able to determine any abnormalities in the aircraft or flight data nor if the reversers deployed before shutdown.

## Synopsis

ERJ-190 Pilot reported the engines would not shut down after gate arrival. Both FADECs had failed and allowed the engine to go into reverse during check list procedures for abnormal shut down.

## Time / Day

Date : 202210

Local Time Of Day : 0601-1200

## Place

Locale Reference.Airport : ZZZZ.Airport

State Reference : FO

## Environment

Flight Conditions : VMC

## Aircraft

Reference : X

ATC / Advisory.TRACON : ZZZZ

Aircraft Operator : Air Carrier

Make Model Name : B767 Undifferentiated or Other Model

Crew Size.Number Of Crew : 3

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Takeoff / Launch

## Component

Aircraft Component : Landing Gear

Aircraft Reference : X

Problem : Malfunctioning

## Person : 1

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Flying

Function.Flight Crew : Captain

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Instrument

Experience.Flight Crew.Total : 1132

Experience.Flight Crew.Last 90 Days : 122

Experience.Flight Crew.Type : 1132

ASRS Report Number.Accession Number : 1942706

Human Factors : Workload

Human Factors : Distraction

Human Factors : Troubleshooting

## Person : 2

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Function.Flight Crew : Pilot Not Flying

Function.Flight Crew : First Officer  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
Qualification.Flight Crew : Multiengine  
Experience.Flight Crew.Total : 569  
Experience.Flight Crew.Last 90 Days : 96  
Experience.Flight Crew.Type : 96  
ASRS Report Number.Accession Number : 1942732  
Human Factors : Workload  
Human Factors : Troubleshooting  
Human Factors : Distraction

## Person : 3

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Function.Flight Crew : Pilot Not Flying  
Function.Flight Crew : First Officer  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
Qualification.Flight Crew : Multiengine  
Experience.Flight Crew.Total : 663  
Experience.Flight Crew.Last 90 Days : 35  
Experience.Flight Crew.Type : 663  
ASRS Report Number.Accession Number : 1942719  
Human Factors : Workload  
Human Factors : Troubleshooting  
Human Factors : Distraction

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Ground Event / Encounter : Person / Animal / Bird  
Anomaly.Inflight Event / Encounter : Fuel Issue  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.General : Flight Cancelled / Delayed  
Result.Flight Crew : Landed in Emergency Condition  
Result.Flight Crew : Overcame Equipment Problem  
Result.Flight Crew : Requested ATC Assistance / Clarification  
Result.Flight Crew : Returned To Departure Airport  
Result.Air Traffic Control : Provided Assistance  
Result.Air Traffic Control : Issued New Clearance  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Primary Problem : Aircraft

## Narrative: 1

XXXX takeoff roll hit bird at 150 kts., at V1. Continued to takeoff; unable to raise gear on departure, [requested priority handling]. Completed the following checklists. Anti-skid, gear disagree, overweight landing, fuel jettison, controllability checklist. Jettisoned 25,000 lbs. of fuel over water/nav point ZZZZZ, 12000 ft. XA34-XA42, spoke to Dispatch, Flight



Attendants (FA), passengers. Asked if FA can see damage. FA were unable. Asked Tower if they could see down locked landing gear. Tower confirmed landing gear down. Calculated landing distance, landed softly flaps 30, 160 kts. Landing weight 332,000 lbs. Runway XXR. XB20, taxi clear, stopped for fire department inspection, cleared to taxi hard stand XX.

#### Narrative: 2

During takeoff out of ZZZZ on XXR, a huge swan hit the aircraft around 150 kts. We immediately got an anti-skid caution message on the EICAS and continued the takeoff. When we had a positive rate and tried to get the gear up, the gear wouldn't come up and stopped in the "off" position. We immediately asked ATC to come back and [requested priority handling]. However, we were too heavy so we went out to dump fuel before landing back on XXR. We performed the following checklist before coming back for a safe landing. Anti-skid, gear disagree, fuel jettison, overweight landing, and structural damage/controllability checklist. Once we configured for an overweight landing of approximately 340.0 GW we got a "gear not down" warning message and confirmed with Tower that our gear was down for landing. We landed safely and got crash fire and rescue to check the aircraft of leaks and our gear before proceeding into the parking stand.

#### Narrative: 3

During takeoff roll on ZZZZ XXR we hit a swan taking flight with the right landing gear at approximately 150 kts. The ANTISKID EICAS ILLUMINATED. After takeoff the landing gear handle would not raise and the GEAR DISAGREE EICAS illuminated. We [requested priority handling] and dumped approximately 25,000 lbs. of fuel offshore at 12000 ft. We conducted Gear Disagree, Fuel Jettison, Antiskid, Overweight Landing, and Structural Damage/Controllability Checks. We returned to ZZZZ with uneventful flaps 30 landing on XXR.

#### Synopsis

B767 Flight Crew reported a bird strike during takeoff roll resulted in inability to raise the landing gear so they returned to the airport.

## Time / Day

Date : 202210  
Local Time Of Day : 0601-1200

## Place

Locale Reference.Airport : ZZZ.Airport  
State Reference : US  
Altitude.AGL.Single Value : 0

## Environment

Flight Conditions : VMC

## Aircraft : 1

Reference : X  
Aircraft Operator : Air Carrier  
Make Model Name : B737 Undifferentiated or Other Model  
Crew Size.Number Of Crew : 2  
Operating Under FAR Part : Part 121  
Mission : Passenger  
Flight Phase : Takeoff / Launch

## Aircraft : 2

Reference : Y  
Make Model Name : Any Unknown or Unlisted Aircraft Manufacturer

## Component

Aircraft Component : Turbine Engine  
Aircraft Reference : X  
Problem : Malfunctioning

## Person

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Air Carrier  
Function.Flight Crew : Captain  
Function.Flight Crew : Pilot Flying  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Multiengine  
Experience.Flight Crew.Total : 1116  
Experience.Flight Crew.Last 90 Days : 166  
Experience.Flight Crew.Type : 1116  
ASRS Report Number.Accession Number : 1942145

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Conflict : Airborne Conflict  
Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy

Anomaly.Deviation / Discrepancy - Procedural : Clearance  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Automation : Aircraft RA  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.Flight Crew : Returned To Departure Airport  
Result.Flight Crew : Landed in Emergency Condition  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Primary Problem : Aircraft

## Narrative: 1

While departing Runway XXL in the process of rotation the aircraft struck a large bird which was ingested into engine number one. The aircraft immediately started to shake and the engine initially seized and then began to surge. [Priority Handling] was declared we received vectors from air traffic control and asked for an immediate return to the airport. Ran QRC checklist and then made an overweight landing. No indication of fire, however the engine produced intermittent power. Initially we were cleared for XXC however due to aircraft's control ability we were not able to make the turn ATC then offered XYC to which we excepted a clearance for landing. In process of landing XYC we did encounter an RA which was flown successfully while also maintaining visual separation.

## Synopsis

Air Carrier Flight Crew flying B737 aircraft reported bird ingestion into number one engine on takeoff rotation.

## Time / Day

Date : 202209

Local Time Of Day : 1801-2400

## Place

Locale Reference.ATC Facility : OWD.Tower

State Reference : MA

Altitude.AGL.Single Value : 15

## Environment

Flight Conditions : Marginal

Weather Elements / Visibility : Fog

Weather Elements / Visibility.Visibility : 5

Light : Dusk

Ceiling.Single Value : 1000

## Aircraft

Reference : X

ATC / Advisory.Tower : OWD

Aircraft Operator : Personal

Make Model Name : Small Transport, Low Wing, 2 Turbojet Eng

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 91

Flight Plan : IFR

Mission : Personal

Flight Phase : Landing

## Person

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Personal

Function.Flight Crew : Captain

Function.Flight Crew : Pilot Flying

Qualification.Flight Crew : Flight Instructor

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Air Transport Pilot (ATP)

Experience.Flight Crew.Total : 26000

Experience.Flight Crew.Last 90 Days : 100

Experience.Flight Crew.Type : 200

ASRS Report Number.Accession Number : 1937796

Human Factors : Situational Awareness

## Events

Anomaly.Conflict : Ground Conflict, Critical

Anomaly.Deviation - Speed : All Types

Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy

Anomaly.Ground Event / Encounter : Person / Animal / Bird

Detector.Person : Flight Crew

When Detected : In-flight

Result.Flight Crew : Executed Go Around / Missed Approach

Result.Flight Crew : Took Evasive Action

## Assessments

Contributing Factors / Situations : Environment - Non Weather Related

Contributing Factors / Situations : Human Factors

Primary Problem : Environment - Non Weather Related

## Narrative: 1

I was flying from right seat on this personal flight back from west coast, last leg. I am very familiar with this airport, and I am aware that around dusk, deer congregate on and around runway. My worst fear became reality when in the flare we saw a big deer running from left to right towards us. I immediately initiated an emergency go around, slammed the throttles full forward and pitched up to avoid a collision. In the subsequent go around procedures I may have exceeded the flaps retraction speeds, because of the adrenaline rush and the "whoa" factor. At level off attitude composed myself and cleaned up airplane per AFM. No damage done, and we avoided the deer. Returned to airport and after runway sweep by FBO, conducted uneventful landing. Contributing factor, fatigue, after long flight, broken fence at the airport, hence numerous wildlife especially at dusk. Informed authorities after event to please address the issue.

## Synopsis

Jet pilot reported a near collision just before landing with a deer on the runway at OWD airport and performed a go-around.

## Time / Day

Date : 202209

Local Time Of Day : 1801-2400

## Place

Locale Reference.Airport : ZZZ.Airport

State Reference : US

Relative Position.Angle.Radial : 285

Relative Position.Distance.Nautical Miles : 5

Altitude.MSL.Single Value : 5500

## Environment

Flight Conditions : VMC

Light : Night

## Aircraft

Reference : X

ATC / Advisory.Tower : ZZZ

Aircraft Operator.Other

Make Model Name : DA20-C1 Eclipse

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 91

Flight Plan : VFR

Mission : Training

Flight Phase : Cruise

Airspace.Class E : ZZZ

## Component

Aircraft Component : Cockpit Window

Aircraft Reference : X

Problem : Failed

## Person

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : FBO

Function.Flight Crew : Instructor

Qualification.Flight Crew : Flight Instructor

Qualification.Flight Crew : Commercial

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine

Experience.Flight Crew.Total : 640

Experience.Flight Crew.Last 90 Days : 123

Experience.Flight Crew.Type : 495

ASRS Report Number.Accession Number : 1935856

Human Factors : Training / Qualification

Human Factors : Troubleshooting

Human Factors : Workload

Human Factors : Distraction

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Result.Flight Crew : Requested ATC Assistance / Clarification  
Result.Flight Crew : Overcame Equipment Problem  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Primary Problem : Aircraft

## Narrative: 1

While enroute from ZZZ to ZZZ1 on a night training flight we encountered what we believed to be a bird strike while cruising at 5500 ft. approximately 105 miles from our destination. Initial indications were that a bird had struck the canopy of the aircraft causing the window on the pilot's side to come off of the plastic rails and into the cabin. We notified ATC of the strike and advised them that we would assess the situation and notify them of any intentions to divert to a closer airport. After thoroughly inspecting the canopy and the leading edge of each wing we decided that there was not a threat to the safety of the flight by continuing on to our destination. All engine indications were normal and continued to remain normal. Based on our ETA at ZZZ1, we were scheduled to land when the Control Tower would still be operating and ARFF available. Upon further inspection after landing, there was no significant damage to the aircraft and no damage other than the pilot's side window.

## Synopsis

A Flight Instructor reported "a bird had struck the canopy of the aircraft causing the window on the pilot's side to come off of the plastic rails and into the cabin."

## Time / Day

Date : 202209  
Local Time Of Day : 0601-1200

## Place

Locale Reference.Airport : ZZZ.Airport  
State Reference : US  
Relative Position.Angle.Radial : 240  
Relative Position.Distance.Nautical Miles : 10  
Altitude.MSL.Single Value : 2200

## Environment

Flight Conditions : VMC  
Weather Elements / Visibility.Visibility : 20  
Light : Daylight

## Aircraft

Reference : X  
ATC / Advisory.CTAF : ZZZ  
Aircraft Operator : Personal  
Make Model Name : Small Aircraft, Low Wing, 1 Eng, Fixed Gear  
Crew Size.Number Of Crew : 2  
Operating Under FAR Part : Part 91  
Flight Plan : IFR  
Mission : Personal  
Nav In Use : GPS  
Flight Phase : Final Approach  
Airspace.Class E : ZZZ

## Component

Aircraft Component : Cockpit Window  
Aircraft Reference : X  
Problem : Failed

## Person

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Personal  
Function.Flight Crew : Pilot Flying  
Function.Flight Crew : Single Pilot  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Private  
Experience.Flight Crew.Total : 370  
Experience.Flight Crew.Last 90 Days : 7  
Experience.Flight Crew.Type : 43  
ASRS Report Number.Accession Number : 1935051

## Events



Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Inflight Event / Encounter : Bird / Animal  
When Detected : In-flight  
Result.General : Maintenance Action  
Result.Flight Crew : Landed As Precaution  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Environment - Non Weather Related  
Primary Problem : Aircraft

## Narrative: 1

The incident occurred at approximately XA00 Day 0 during an IFR XC from ZZZ1 to ZZZ in VMC. While flying the full published RNAVXX approach to ZZZ, after being cleared for the approach, completing the procedure turn and established inbound around ZZZZZ (~10NM from ZZZ) at 2200 ft. in approach configuration (110kts 50% flap, Autopilot) a bird (eagle?) struck the windshield high on the pilot side. Pilot was wearing goggles for the approach while the co-pilot/safety pilot was monitoring the UNICOM and pattern traffic. No birds had been observed in the vicinity until the strike. The impact created a large hole in the windshield sending plexiglass, bird feathers blood and gore into the face and torso of the pilot as well as throughout the cabin. There was considerable wind noise making radio/intercom communication difficult. Bird was lodged head down at the windshield / fuselage roof intersection and had penetrated several inches into the composite roof structure. Bird was removed from that location by pilot to regain visibility. Co-pilot radioed ATC/Unicom (there were two other aircraft in the pattern) to report the strike while pilot flew plane and landed safely. Injuries were minor cuts and bruises to the pilot. IFR plan was closed on the ground. Only one hit was heard/felt and the engine continued to run normally. So not sure if the bird struck the prop before hitting the windshield or if the bird struck from above without striking the prop. Given the angles involved it was not possible to see and avoid. Staff at ZZZ advised that this was the second bird strike in the vicinity of the airport in the last week.

## Synopsis

GA pilot reported while on approach a bird strike penetrated the windshield and resulted in considerable noise and wind but pilot made a safe landing.

## Time / Day

Date : 202209

Local Time Of Day : 1201-1800

## Place

Locale Reference.ATC Facility : ZZZ.TRACON

State Reference : US

## Aircraft

Reference : X

ATC / Advisory.TRACON : ZZZ

Aircraft Operator : Air Carrier

Make Model Name : A321

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Climb

Flight Phase : Initial Climb

Airspace.Class B : ZZZ

## Component

Aircraft Component : Engine

Aircraft Reference : X

Problem : Malfunctioning

## Person

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Check Pilot

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Air Transport Pilot (ATP)

ASRS Report Number.Accession Number : 1933727

Human Factors : Confusion

Human Factors : Distraction

Human Factors : Time Pressure

Human Factors : Troubleshooting

Human Factors : Workload

## Events

Anomaly.Aircraft Equipment Problem : Critical

Anomaly.Flight Deck / Cabin / Aircraft Event : Smoke / Fire / Fumes / Odor

Anomaly.Inflight Event / Encounter : Bird / Animal

Detector.Person : Flight Crew

When Detected : In-flight

## Assessments

Contributing Factors / Situations : Aircraft  
Primary Problem : Aircraft

## Narrative: 1

On climbout of ZZZ smelled a food burning smell. I thought Flight Attendant (FA) was cooking our crew meals. Got a call from FA later during climb that smell was strong throughout cabin. First Officer (FO) then said he saw a bird go by on climbout that he thought we may have hit. After discussing issue with Operations and Maintenance control via crew phone, I decided to return to ZZZ and land overweight per their suggestion and the fact that we had the fume event happening. [Priority handling was requested] for overweight landing and bird strike on takeoff. Airport Rescue and Firefighting (ARFF) was called out and they followed us to gate inspecting the engine for damage and to ensure no fire ignited. Passengers were deplaned. Got a new plane and departed for ZZZ1 again 4 hours late. Bird strike was in number #1 engine as evidenced by blood and feather debris noted by us and maintenance on post flight walk around. This was written up in Aircraft Maintenance Logbook (AML). Overweight landing was written up in AML with required parameters also. Another AML write up was done for item not related to this event as well. No suggestions.

## Synopsis

A321 pilot reported a bird strike on departure caused a fumes event and a return to the airport for an overweight landing.

## Time / Day

Date : 202209

Local Time Of Day : 1201-1800

## Place

Locale Reference.ATC Facility : ZZZ.TRACON

State Reference : US

## Aircraft

Reference : X

ATC / Advisory.TRACON : ZZZ

Aircraft Operator : Air Carrier

Make Model Name : A320

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Airspace.Class E : ZZZ

## Component

Aircraft Component : Cockpit Window

Aircraft Reference : X

Problem : Malfunctioning

## Person : 1

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Not Flying

Function.Flight Crew : Captain

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Instrument

ASRS Report Number.Accession Number : 1932957

## Person : 2

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : First Officer

Function.Flight Crew : Pilot Flying

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine

ASRS Report Number.Accession Number : 1933507

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.General : Maintenance Action  
Result.Flight Crew : Returned To Departure Airport

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Environment - Non Weather Related  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

After takeoff, at around 2,500 feet, a large bird struck the aircraft near the lower front edge of the FO's front window. A large smear of bird remains covered the window after the event. Upon inspection we observed what looked like a crack in the window. I then informed ATC of the event and asked for delay vectors while we worked some procedures for the event and would soon be requesting vectors for a return to ZZZ. I advised dispatch through ACARS of the event and that we would be returning. We then went through the Overweight Landing procedure as we were around 157,000 pounds. I then called the lead FA and informed here of the situation and then made a PA to the passengers of the situation and that we would be returning to ZZZ. We were given vectors to [Runway] XXR in ZZZ and made an uneventful landing. The max brake temperature reached was 460 degrees. Upon reaching the gate maintenance took the aircraft out of service to inspect the window and do the Overweight landing checks. The aircraft was deplaned and all passengers were directed to a replacement aircraft. The flight was resumed to ZZZ1 without further incident.

## Narrative: 2

Approximately 5 minutes after takeoff and roughly 2,500 ft AGL we struck a bird that hit just below the windscreen on the FO's position. There were a large amount of remains splattered on the windscreen. I observed what I believed to be a crack on the lower right portion of the outer window. The Captain determined that it would be best to return to station and I fully supported his decision. We contacted ATC and asked for vectors off the SID to evaluate the situation and take the appropriate action. Dispatch was notified, the lead FA was notified and the passengers informed of the situation and our decision to return. We then went through the overweight landing procedure and set up for a landing back at ZZZ. ATC vectored us for a landing on [Runway] XXR back in ZZZ and we landed without incident. Upon arrival back at the gate we were informed that the aircraft required an inspection for the bird strike and overweight landing and would be out of service for at least 2 hours. Our pax deplaned and we were given an other plane for the flight to ZZZ1. We resumed our flight to ZZZ1 without incident.

## Synopsis

A320 Flight Crew reported a bird strike during takeoff resulting in a crack on the First Officer's lower front edge window. The flight crew informed ATC and Dispatch of the situation and decided to return to the departure airport.

## Time / Day

Date : 202208  
Local Time Of Day : 1201-1800

## Place

Locale Reference.Airport : ZZZ.Airport  
State Reference : US  
Altitude.AGL.Single Value : 0

## Environment

Flight Conditions : VMC

## Aircraft

Reference : X  
ATC / Advisory.Tower : ZZZ  
Aircraft Operator : Air Carrier  
Make Model Name : SA-227 AC Metro III  
Crew Size.Number Of Crew : 2  
Operating Under FAR Part : Part 121  
Flight Plan : IFR  
Mission : Cargo / Freight / Delivery  
Flight Phase : Takeoff / Launch  
Route In Use : Vectors

## Component

Aircraft Component : Turbine Engine  
Aircraft Reference : X  
Problem : Malfunctioning

## Person

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Air Carrier  
Function.Flight Crew : Captain  
Function.Flight Crew : Pilot Not Flying  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
Qualification.Flight Crew : Multiengine  
ASRS Report Number.Accession Number : 1923961

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Conflict : Airborne Conflict  
Anomaly.Deviation / Discrepancy - Procedural : Clearance  
Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Person : Flight Crew  
Were Passengers Involved In Event : N

When Detected : In-flight  
Result.General : Flight Cancelled / Delayed  
Result.General : Maintenance Action  
Result.Flight Crew : Rejected Takeoff  
Result.Air Traffic Control : Provided Assistance  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Primary Problem : Aircraft

## Narrative: 1

During takeoff roll just prior to V1, [a] Crow flew in front of us and was ingested by the right engine. The engine lost power and the aircraft subsequently yawed to the right. Both pilots called abort. The first officer retarded the power levers and I took control to perform the aborted takeoff. As we turned off the runway, a vibration could be felt and right engine EGT was 640 degrees C at idle. I elected to shutdown the engine using normal procedures and taxi in on one engine. Upon visual inspection, blood was found in engine intake and several compressor blades had obvious damage. Airport operations found one wing and several feathers on the runway. We watched the bird being ingested by the engine and felt the subsequent power loss and yaw. Right engine ingested bird on takeoff roll. Abort takeoff and shutdown engine. Better wildlife management near airports.

## Synopsis

Captain reported a bird was ingested by the right engine, resulting in engine damage and a rejected take off. The flight crew taxied back to the ramp and turned the aircraft over to Maintenance for repair.

## Time / Day

Date : 202207

Local Time Of Day : 0601-1200

## Place

Locale Reference.Airport : DFW.Airport

State Reference : TX

Altitude.MSL.Single Value : 5000

## Aircraft

Reference : X

ATC / Advisory.TRACON : D10

Aircraft Operator : Air Carrier

Make Model Name : Large Transport, Low Wing, 2 Turbojet Eng

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Climb

Flight Phase : Initial Climb

Route In Use.SID : AKUNA9

Airspace.Class B : DFW

## Component

Aircraft Component : Turbine Engine

Aircraft Reference : X

Problem : Malfunctioning

## Person : 1

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Flying

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine

ASRS Report Number.Accession Number : 1921902

## Person : 2

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Flying

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine

ASRS Report Number.Accession Number : 1921911

## Events



Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Deviation / Discrepancy - Procedural : Clearance  
Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.General : Maintenance Action  
Result.Flight Crew : Landed in Emergency Condition  
Result.Flight Crew : Returned To Departure Airport  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Environment - Non Weather Related  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

During departure on the AKUNA 9 SID passing JGIRL at approx 5,000 feet struck a large bird in the #1 engine. Terminated the SID declared priority handling and recovered to a visual straight in to 17R. There was a smell of roasted bird in the cockpit and cabin. Engine had some vibration but operating normally in idle during decent and approach. All engine indications remained in the green and stable. Recovered uneventfully. Stopped on Runway 17R fire department checked for external damage and none was apparent so we taxied back to the gate.

## Narrative: 2

Bird strike on departure from DFW, QRH procedures followed and declared [priority handling] for return to DFW.

## Synopsis

Air Carrier Flight Crew reported a bird strike on departure which resulted in engine damage and a return to departure airport.

## Time / Day

Date : 202207

Local Time Of Day : 1801-2400

## Place

Locale Reference.ATC Facility : ZZZ.Tower

State Reference : US

## Environment

Flight Conditions : VMC

Light : Dusk

## Aircraft

Reference : X

ATC / Advisory.Tower : ZZZ

Aircraft Operator : Air Carrier

Make Model Name : Regional Jet 200 ER/LR (CRJ200)

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Final Approach

Route In Use : Visual Approach

Airspace.Class D : ZZZ

## Person

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Captain

Function.Flight Crew : Pilot Not Flying

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Air Transport Pilot (ATP)

ASRS Report Number.Accession Number : 1919171

Human Factors : Confusion

Human Factors : Distraction

Human Factors : Human-Machine Interface

Human Factors : Situational Awareness

Human Factors : Workload

## Events

Anomaly.Deviation - Altitude : Overshoot

Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy

Anomaly.Ground Event / Encounter : Person / Animal / Bird

Anomaly.Inflight Event / Encounter : CFTT / CFIT

Detector.Automation : Aircraft Terrain Warning

Detector.Person : Flight Crew

When Detected : In-flight

Result.General : Flight Cancelled / Delayed  
Result.Flight Crew : Executed Go Around / Missed Approach  
Result.Flight Crew : Overrode Automation  
Result.Flight Crew : Became Reoriented

## Assessments

Contributing Factors / Situations : Airspace Structure  
Contributing Factors / Situations : Human Factors  
Contributing Factors / Situations : Software and Automation  
Contributing Factors / Situations : Procedure  
Primary Problem : Procedure

## Narrative: 1

After getting a canceled approach clearance due to birds on the runway we executed a non-standard go around procedure and entered the traffic pattern as directed by ATC. Once re-cleared for the approach we turned base and started a descent. During this time a momentary "OBSTACLE" aural was heard and corrected immediately by overriding automation. The rest of the approach and landing continued normally and we debriefed the event. Non standard go around and approach procedure on unfamiliar area. High workload environment. Stay higher on visual approaches to unfamiliar airports.

## Synopsis

Air Carrier Captain reported they received a momentary "obstacle" warning which they overcame by overriding the automation.

## Time / Day

Date : 202206  
Local Time Of Day : 1801-2400

## Place

Locale Reference.Airport : ZZZ.Airport  
State Reference : US  
Altitude.AGL.Single Value : 0

## Environment

Flight Conditions : VMC  
Weather Elements / Visibility.Visibility : 20  
Light : Dusk  
Ceiling.Single Value : 25000

## Aircraft

Reference : X  
ATC / Advisory.UNICOM : ZZZ  
Aircraft Operator : Personal  
Make Model Name : Small Aircraft, Low Wing, 2 Eng, Retractable Gear  
Crew Size.Number Of Crew : 1  
Operating Under FAR Part : Part 91  
Flight Plan : None  
Mission : Personal  
Flight Phase : Landing  
Route In Use : Visual Approach  
Airspace.Class G : ZZZ

## Person

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Personal  
Function.Flight Crew : Single Pilot  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Multiengine  
Qualification.Flight Crew : Commercial  
Experience.Air Traffic Control.Supervisory : 4111  
Experience.Flight Crew.Total : 802  
Experience.Flight Crew.Last 90 Days : 10  
Experience.Flight Crew.Type : 54  
ASRS Report Number.Accession Number : 1908806

## Events

Anomaly.Conflict : Ground Conflict, Critical  
Anomaly.Ground Event / Encounter : Person / Animal / Bird  
Detector.Person : Flight Crew  
Were Passengers Involved In Event : N  
When Detected.Other

Result.General : Maintenance Action

Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Environment - Non Weather Related

Primary Problem : Environment - Non Weather Related

## Narrative: 1

On landing directly after touchdown a deer ran onto the runway directly at my airplane and struck the plane, and went under the wing and the main gear ran over him. There was very little damage but my mechanic is checking it, lots of blood and deer parts.

## Synopsis

Twin Engine Pilot reported while landing at a non-towered airport a deer darted onto the runway. The deer hit the aircraft and passed under the gear and aircraft. The deer did not survive and the aircraft underwent maintenance inspection.

## Time / Day

Date : 202206

Local Time Of Day : 0601-1200

## Place

Locale Reference.ATC Facility : MIA.Tower

State Reference : FL

## Aircraft : 1

Reference : X

ATC / Advisory.Tower : ZZZ

Aircraft Operator : Air Carrier

Make Model Name : Commercial Fixed Wing

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Nav In Use : GPS

Nav In Use : FMS Or FMC

Flight Phase : Final Approach

Airspace.Class B : ZZZ

## Aircraft : 2

Reference : Y

Aircraft Operator.Other

Make Model Name : No Aircraft

## Person

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Captain

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Air Transport Pilot (ATP)

ASRS Report Number.Accession Number : 1906479

Human Factors : Distraction

Human Factors : Situational Awareness

Human Factors : Time Pressure

Human Factors : Workload

## Events

Anomaly.Conflict : Ground Conflict, Critical

Anomaly.Ground Event / Encounter : Person / Animal / Bird

Anomaly.Ground Event / Encounter : Vehicle

Detector.Automation : Air Traffic Control

Detector.Person : Air Traffic Control

Were Passengers Involved In Event : N

When Detected : In-flight

Result.Flight Crew : Took Evasive Action

Result.Flight Crew : Executed Go Around / Missed Approach

Result.Air Traffic Control : Issued New Clearance

## Assessments

Contributing Factors / Situations : Environment - Non Weather Related

Primary Problem : Environment - Non Weather Related

## Narrative: 1

During the approach to Runway 09 of MIA, the Tower informs us about the presence of animals on it and the entry of vehicles to remove them. He instructs us to escape and then make a new approach to Runway 08L.

## Synopsis

Captain reported animals and an airport vehicle on the intended landing runway. ATC directed a missed approach to a different runway.

## Time / Day

Date : 202205

Local Time Of Day : 0601-1200

## Place

Locale Reference.Airport : ZZZ.Airport

State Reference : US

Altitude.AGL.Single Value : 0

## Aircraft

Reference : X

ATC / Advisory.CTAF : ZZZ

Aircraft Operator : Personal

Make Model Name : Twin Otter DHC-6

Crew Size.Number Of Crew : 1

Operating Under FAR Part : Part 91

Flight Plan : None

Mission : Passenger

Flight Phase : Takeoff / Launch

Route In Use : None

## Person

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Personal

Function.Flight Crew : Single Pilot

Function.Flight Crew : Pilot Flying

Qualification.Flight Crew : Flight Instructor

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Commercial

Experience.Flight Crew.Total : 1620

Experience.Flight Crew.Last 90 Days : 36

Experience.Flight Crew.Type : 36

ASRS Report Number.Accession Number : 1900801

Human Factors : Distraction

## Events

Anomaly.Ground Excursion : Runway

Anomaly.Ground Event / Encounter : Person / Animal / Bird

Anomaly.Ground Event / Encounter : Loss Of Aircraft Control

Detector.Person : Flight Crew

When Detected : In-flight

Result.Flight Crew : Took Evasive Action

## Assessments

Contributing Factors / Situations : Environment - Non Weather Related

Primary Problem : Environment - Non Weather Related



## Narrative: 1

While conducting skydiving operations second load of the day, during takeoff run pilot visualized wild turkey crossing runway, pilot decided to reject takeoff, that caused the aircraft to initially veer left, pilot applied right rudder to center while adding brake, the aircraft reduced speed to where rudder was not effective anymore and ended up coming to a stop on the grass adjacent to the runway, there were 16 jumpers onboard at the time, no one was hurt, the aircraft was flown to a shop for inspection and no damage to the aircraft was found.

## Synopsis

Skydive Pilot reported rejecting a takeoff due to an animal crossing the runway resulting in a runway excursion.

## Time / Day

Date : 202205

Local Time Of Day : 1801-2400

## Place

Locale Reference.Airport : ZZZ.Airport

State Reference : US

Altitude.AGL.Single Value : 0

## Aircraft

Reference : X

Aircraft Operator : Air Carrier

Make Model Name : Medium Transport, High Wing, 2 Turboprop Eng

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Landing

## Person

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Captain

Function.Flight Crew : Pilot Flying

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Multiengine

ASRS Report Number.Accession Number : 1897871

## Events

Anomaly.Conflict : Ground Conflict, Critical

Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy

Anomaly.Deviation / Discrepancy - Procedural : FAR

Anomaly.Ground Event / Encounter : Person / Animal / Bird

Detector.Person : Flight Crew

When Detected : In-flight

Result.Flight Crew : Took Evasive Action

## Assessments

Contributing Factors / Situations : Environment - Non Weather Related

Primary Problem : Environment - Non Weather Related

## Narrative: 1

On the landing rollout in ZZZ, landing Runway XX, I saw a family of geese come out of the grass between the runway and taxiway. We were in the process of slowing to exit the Runway. The geese were initially moving from west to east across the runway but then turned north as they saw the airplane coming. I maneuvered the aircraft nose wheel

slightly to the right of centerline to not hit the geese with the nose gear and I saw the geese go by down the left side of the airplane. They were all still on the ground at that time. I never saw them attempting to fly. I would estimate our speed as being around 50 kts. as we passed the geese and slowing. I notified Tower of the geese on the runway and that we might have struck them. We turned off the runway and turned south on [taxiway] to the gate. On the way past I could see at least 2 geese still on the runway just south of [taxiway]. We taxied to the gate. I did a thorough post flight inspection of the aircraft. I could not identify where on the aircraft we struck the geese. I notified Maintenance and Maintenance Personnel came and checked the aircraft as well and could not find signs of the bird strike. Airport Operations came to the aircraft and I spoke with them. They informed me that there were 4 geese found deceased on the Runway X full grown and 2 babies. One of the operations personnel was surprised by the lack of blood on the geese. I informed ZZZ Ground that we had observed no damage on the aircraft.

## Synopsis

Flight Crew reported a family of Canadian Geese on the runway during landing rollout.

## Time / Day

Date : 202205  
Local Time Of Day : 0601-1200

## Place

Locale Reference.Airport : ZZZ.Airport  
State Reference : US

## Environment

Flight Conditions : VMC

## Aircraft

Reference : X  
Aircraft Operator : Air Carrier  
Make Model Name : B737 Next Generation Undifferentiated  
Crew Size.Number Of Crew : 2  
Operating Under FAR Part : Part 121  
Mission : Passenger  
Flight Phase : Takeoff / Launch

## Component

Aircraft Component : Angle of Attack Vane  
Aircraft Reference : X  
Problem : Failed

## Person

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Air Carrier  
Function.Flight Crew : First Officer  
Function.Flight Crew : Pilot Flying  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Multiengine  
Experience.Flight Crew.Total : 13198  
Experience.Flight Crew.Last 90 Days : 128  
Experience.Flight Crew.Type : 13198  
ASRS Report Number.Accession Number : 1897807

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy  
Anomaly.Deviation / Discrepancy - Procedural : Clearance  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.Flight Crew : Returned To Departure Airport

Result.Flight Crew : Diverted  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Environment - Non Weather Related  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

As I rotated two geese hit the right nose of the aircraft. The AOA (Angle of Attack) [vane] sheared off causing erroneous airspeed and altitude info. We switched controls and Captain uneventfully landed over weight.

## Synopsis

B737 Flight Crew reported a bird strike right after takeoff, resulting in an angle of attack vane to shear off.

## Time / Day

Date : 202205

## Place

Locale Reference.ATC Facility : EWR.Tower

State Reference : NJ

Altitude.AGL.Single Value : 20

## Environment

Flight Conditions : VMC

## Aircraft

Reference : X

ATC / Advisory.Tower : EWR

Aircraft Operator : Air Carrier

Make Model Name : Medium Large Transport, Low Wing, 2 Turbojet Eng

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Nav In Use : FMS Or FMC

Nav In Use : GPS

Flight Phase : Takeoff / Launch

Route In Use : Direct

Airspace.Class B : EWR

## Component

Aircraft Component : Pitot-Static System

Aircraft Reference : X

Problem : Failed

## Person

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Not Flying

Function.Flight Crew : Captain

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Instrument

Experience.Flight Crew.Total : 9720

Experience.Flight Crew.Last 90 Days : 170

Experience.Flight Crew.Type : 9720

ASRS Report Number.Accession Number : 1897774

Human Factors : Situational Awareness

Human Factors : Time Pressure

Human Factors : Troubleshooting

Human Factors : Workload

Human Factors : Other / Unknown  
Human Factors : Distraction

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Automation : Aircraft Other Automation  
Detector.Person : Flight Crew  
Were Passengers Involved In Event : N  
When Detected : In-flight  
Result.Flight Crew : Requested ATC Assistance / Clarification  
Result.Flight Crew : Returned To Departure Airport  
Result.Flight Crew : Landed in Emergency Condition  
Result.Air Traffic Control : Provided Assistance  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Environment - Non Weather Related  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

On takeoff, hit a goose at about 20 ft. First Officers pitot static system failed, causing erroneous indications. I then took over flying the aircraft, we [requested priority handling] and returned to Newark airport for an overweight landing.

## Synopsis

Air Carrier Captain reported a Canadian Goose bird strike after takeoff. The collision caused the First Officer's static system to fail. The Captain ask for and was given priority handling to return to the airport.

## Time / Day

Date : 202204  
Local Time Of Day : 1201-1800

## Place

Locale Reference.ATC Facility : ZZZ.TRACON  
State Reference : US  
Altitude.AGL.Single Value : 200

## Environment

Flight Conditions : VMC  
Weather Elements / Visibility.Visibility : 10  
Light : Daylight  
Ceiling.Single Value : 25000

## Aircraft

Reference : X  
ATC / Advisory.TRACON : ZZZ  
Aircraft Operator : Personal  
Make Model Name : PA-28 Cherokee/Archer/Dakota/Pillan/Warrior  
Crew Size.Number Of Crew : 1  
Operating Under FAR Part : Part 91  
Flight Plan : IFR  
Mission : Personal  
Flight Phase : Initial Climb  
Route In Use : Visual Approach  
Airspace.Class E : ZZZ

## Component

Aircraft Component : Gear Extend/Retract Mechanism  
Aircraft Reference : X  
Problem : Failed

## Person

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Personal  
Function.Flight Crew : Instructor  
Qualification.Flight Crew : Glider  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Commercial  
Qualification.Flight Crew : Flight Instructor  
Experience.Flight Crew.Total : 5000  
Experience.Flight Crew.Last 90 Days : 10  
Experience.Flight Crew.Type : 1500  
ASRS Report Number.Accession Number : 1894694

## Events



Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Flight Deck / Cabin / Aircraft Event : Smoke / Fire / Fumes / Odor  
Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy  
Anomaly.Deviation / Discrepancy - Procedural : Clearance  
Anomaly.Ground Event / Encounter : Gear Up Landing  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.General : Evacuated  
Result.Flight Crew : Returned To Departure Airport  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Environment - Non Weather Related  
Contributing Factors / Situations : Human Factors  
Primary Problem : Human Factors

## Narrative: 1

The flight was planned as a short preparation flight for a cross country the next day. Essentially a few practice approaches and back down again. Bird nesting season is in full bloom and I completed a thorough (or so I thought) preflight removing the new full-cowl cover and nose plugs for keeping birds out. I proceeded with normal start, taxi and run-up procedures and then entered my flight plan into the Garmin 430. Executed a normal takeoff. At about 50-100 ft. altitude the Cockpit began to fill with smoke. It was too late to abort the takeoff so I opted for an immediate landing asking the aircraft ahead of me to extend his downwind so that I could make a very shortened pattern. I lowered the gear handle and opened the pilot's vent window which helped clear my watering eyes. My approach was high and I slipped to slow the aircraft and keep the smoke away from the left side. At about 50 ft. I stopped the slip and lowered full flaps. I began a normal flare and at this point the prop and flaps absorbed the landing. The aircraft came to a stop. I performed shutdown procedures and egress with my [dog] who was on his first demo flight. As I reached to turn off the master switch I noted that the gear safe lights were all out and the auto gear extension was in the proper position for an auto extension that did not happen. Better a gear up landing than a crash due to smoke inhalation.

## Synopsis

PA28R Pilot reported engine compartment fire and gear up landing.

## Time / Day

Date : 202204  
Local Time Of Day : 1801-2400

## Place

Locale Reference.ATC Facility : ZZZ.TRACON  
State Reference : US  
Altitude.MSL.Single Value : 5500

## Aircraft

Reference : X  
ATC / Advisory.TRACON : ZZZ  
Aircraft Operator : Air Carrier  
Make Model Name : B737 Undifferentiated or Other Model  
Crew Size.Number Of Crew : 2  
Operating Under FAR Part : Part 121  
Flight Plan : IFR  
Mission : Passenger  
Flight Phase : Climb  
Airspace.Class B : ZZZ

## Component

Aircraft Component : Fuselage Nose Cone  
Aircraft Reference : X  
Problem : Malfunctioning

## Person : 1

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Air Carrier  
Function.Flight Crew : Captain  
Qualification.Flight Crew : Multiengine  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
Qualification.Flight Crew : Instrument  
ASRS Report Number.Accession Number : 1893297  
Human Factors : Workload  
Human Factors : Troubleshooting

## Person : 2

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Air Carrier  
Function.Flight Crew : First Officer  
Function.Flight Crew : Pilot Not Flying  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Multiengine  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
Experience.Flight Crew.Last 90 Days : 150  
Experience.Flight Crew.Type : 1763

ASRS Report Number.Accession Number : 1892934  
Human Factors : Troubleshooting  
Human Factors : Workload

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Automation : Aircraft Other Automation  
Detector.Person : Flight Crew  
When Detected : In-flight  
Result.General : Flight Cancelled / Delayed  
Result.Flight Crew : Returned To Departure Airport  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Environment - Non Weather Related  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

Passing approximately 5,500 feet on ZZZZZ4 out of ZZZ, we saw two very large flashes resulting in a bird strike which was immediately followed by an IAS DISAGREE indication. The First Officer's airspeed indicator displayed 12 to 13 knots below Captain's and standby airspeed indicator. We asked for a level off at 10,000 feet MSL and accomplished the IAS DISAGREE checklist and memory items. We also heard more-than-normal air noise. The decision was made to return to ZZZ for an overweight landing (GW XXX.0). Flight Attendants, Passengers, Dispatch and ZZZ Operations notified. There was adequate margin between calculated approach and placard speed for a flaps 40 approach. We informed Tower of our intent to use the full length of Runway XX. Full reverse thrust and manual braking was used at 55 knots.

## Narrative: 2

After takeoff around 5,000 feet two big birds hit the aircraft on the nose cone. We immediately got IAS disagree and some added wind noise. We asked ATC to level at 10,000 feet and stay in the area while we ran checklists. We ran the IAS Disagree QRH and it lead us to airspeed unreliable QRH. At the completion of the checklist, we decided the best course of action would be to return to ZZZ as we could not clear the IAS disagree and we were concerned with damage to the nose cone. We informed ATC, Dispatch, the Flight Attendants, and the Passengers. We returned to ZZZ without incident and taxied to Gate XXX.

## Synopsis

B737 Flight Crew reported two large birds hit the nose cone during departure, resulting in an airspeed disagree message. The Flight Crew completed an air turn back to landing.

## Time / Day

Date : 202204

Local Time Of Day : 1801-2400

## Place

Locale Reference.ATC Facility : ZZZ.Tower

State Reference : US

## Environment

Light : Night

## Aircraft

Reference : X

Aircraft Operator : Air Carrier

Make Model Name : EMB ERJ 170/175 ER/LR

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Descent

Cabin Lighting : Off

## Component

Aircraft Component : Flap Control (Trailing & Leading Edge)

Aircraft Reference : X

Problem : Failed

## Person

Location Of Person.Aircraft : X

Location In Aircraft : General Seating Area

Cabin Activity : Safety Related Duties

Reporter Organization : Air Carrier

Function.Flight Attendant : Flight Attendant (On Duty)

Qualification.Flight Attendant : Current

ASRS Report Number.Accession Number : 1892714

Human Factors : Workload

Human Factors : Troubleshooting

## Events

Anomaly.Aircraft Equipment Problem : Critical

Anomaly.Deviation / Discrepancy - Procedural : Clearance

Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy

Anomaly.Inflight Event / Encounter : Bird / Animal

Detector.Person : Flight Crew

Detector.Person : Flight Attendant

When Detected : In-flight

Result.General : Maintenance Action

Result.Flight Crew : Executed Go Around / Missed Approach

Result.Flight Crew : Overcame Equipment Problem  
Result.Flight Crew : Requested ATC Assistance / Clarification  
Result.Flight Crew : Returned To Clearance  
Result.Air Traffic Control : Provided Assistance

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Environment - Non Weather Related  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

Bird strike caused fail wing slat on descent. So we had to go around so pilots could resolve a solution etc.. All went well and we landed safely. No emergency evacuation.

## Synopsis

Air Carrier Flight Attendant reported a bird strike during landing. Flight crew executed a missed approach and returned for a safe landing.

## Time / Day

Date : 202204

Local Time Of Day : 1801-2400

## Place

Locale Reference.ATC Facility : ZZZ.TRACON

State Reference : US

## Environment

Flight Conditions : VMC

Weather Elements / Visibility : Icing

Weather Elements / Visibility : Turbulence

Light : Night

## Aircraft

Reference : X

Aircraft Operator : Air Carrier

Make Model Name : EMB ERJ 170/175 ER/LR

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Initial Approach

Route In Use : Vectors

## Component

Aircraft Component : Leading Edge Slat

Aircraft Reference : X

Problem : Malfunctioning

## Person : 1

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Flying

Function.Flight Crew : Captain

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine

ASRS Report Number.Accession Number : 1892471

Human Factors : Troubleshooting

## Person : 2

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : First Officer

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Multiengine  
ASRS Report Number.Accession Number : 1892588  
Human Factors : Troubleshooting

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Deviation / Discrepancy - Procedural : Clearance  
Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Automation : Aircraft Other Automation  
Detector.Person : Flight Crew  
Were Passengers Involved In Event : N  
When Detected : In-flight  
Result.General : Maintenance Action  
Result.General : Flight Cancelled / Delayed  
Result.Flight Crew : Executed Go Around / Missed Approach  
Result.Flight Crew : Requested ATC Assistance / Clarification  
Result.Flight Crew : Returned To Departure Airport  
Result.Air Traffic Control : Provided Assistance

## Assessments

Contributing Factors / Situations : Aircraft  
Primary Problem : Aircraft

## Narrative: 1

On the ILS XXL approach into ZZZ, I was Pilot Flying and my First Officer was Pilot Monitoring. At approx 2,500 feet in descent we received an EICAS (engine indicating and crew alerting system) Slat Fail. The First Officer also mentioned he had a loud pop. I elected to discontinue the approach and perform a go around. Once leveled off, I transferred flight controls to the PM (FO) and ran the Slat Fail QRH (quick reference handbook). ZZZ gave us delays vectors while running the QRH. There seemed to be confusion between us and ATC. I think they thought we had a flight control malfunction despite stating we had a slat malfunction. They then [assigned priority handling] on their behalf and we gave SOB and FOB. The slats were stuck at 1 but flaps were able to be extended to 5 for landing. After running the QRH, I took back the flight controls to perform the landing. After landing we exited the runway and had the ARFF (airport rescue and firefighting) trucks perform an inspection on the right wing to verify there wasn't any damage to the wing that would prevent taxi back to the gate.

## Narrative: 2

While on approach (about 4 miles outside of the final approach fix) First Officer heard a loud thud favoring the right side of the aircraft, seconds later an EICAS (engine indicating and crew alerting system) message (Slat Fail) appeared. Crew initiated a soft go around to run QRH (quick reference handbook). Following QRH procedure, we returned to field for a Slat 3, Flaps 5 landing. This configuration raised the stall speed and led to a harder than normal landing (as expected). Upon vacating the runway environment priority vehicles searched the aircraft for damage (they were notified that we heard a banging noise on the right side of the aircraft). We were told that no damage was suspected. Upon our arrival at the gate (we left the aircraft in a landing configuration) ramp personnel brought it to our attention that we hit a bird.

## Synopsis

EMB ERJ Flight Crew reported a leading edge slat failure on approach after a bird strike. The flight crew elected to perform a go around and returned to land at destination airport.



## Time / Day

Date : 202204

Local Time Of Day : 1201-1800

## Place

Locale Reference.Airport : ZZZ.Airport

State Reference : US

Altitude.AGL.Single Value : 0

## Environment

Flight Conditions : VMC

Light : Daylight

## Aircraft

Reference : X

Aircraft Operator : Corporate

Make Model Name : Gulfstream G280

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 91

Flight Plan : IFR

Mission : Test Flight / Demonstration

Flight Phase : Taxi

## Component

Aircraft Component : Pitot-Static System

Aircraft Reference : X

Problem : Malfunctioning

## Person

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Corporate

Function.Flight Crew : Captain

Function.Flight Crew : Pilot Not Flying

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine

Qualification.Flight Crew : Air Transport Pilot (ATP)

ASRS Report Number.Accession Number : 1889558

Human Factors : Troubleshooting

## Events

Anomaly.Aircraft Equipment Problem : Critical

Anomaly.Deviation / Discrepancy - Procedural : FAR

Anomaly.Deviation / Discrepancy - Procedural : Clearance

Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy

Anomaly.Ground Event / Encounter : Person / Animal / Bird

Anomaly.Ground Event / Encounter : FOD

Detector.Automation : Aircraft Other Automation

Detector.Person : Flight Crew  
Were Passengers Involved In Event : N  
When Detected : In-flight  
Result.General : Maintenance Action  
Result.General : Flight Cancelled / Delayed  
Result.Flight Crew : Rejected Takeoff  
Result.Flight Crew : Returned To Gate  
Result.Flight Crew : Requested ATC Assistance / Clarification  
Result.Air Traffic Control : Provided Assistance

## Assessments

Contributing Factors / Situations : Aircraft  
Contributing Factors / Situations : Human Factors  
Contributing Factors / Situations : Procedure  
Primary Problem : Aircraft

## Narrative: 1

Part 91 maintenance flight of new aircraft being conducted without passengers in conjunction with approach currency for the pilot flying, PIC (Pilot in Command). I was the pilot monitoring, SIC (Second in Command). Planned flight from ZZZ1 to ZZZ with the intent of flying 3 practice approaches at ZZZ and return to ZZZ1 for one final approach. Both pilots conducted a complete preflight walkaround inspection of the aircraft and noted nothing abnormal. Departure, climb, and cruise to ZZZ were uneventful. After an uneventful approach and landing at ZZZ, we were presented with an amber "RUD Fail Safe Value" CAS. The PIC called for the checklist as we cleared the runway and began taxiing back for departure on Runway XX. I requested from Ground Control to hold short of the runway while running the checklist, while the PIC contacted Company Tech Operations for troubleshooting. Of note is that the aircraft was ineligible for MEL relief. The PIC, in coordination with Tech Operations, elected to shut down both engines and APU, powering down the aircraft entirely to reset. We obtained permission to do this in our present position from ATC. Upon fully powering up the aircraft, the CAS message was no longer displayed and there were no indications of any anomalies. We therefore elected to attempt a takeoff and briefed that we would abort the takeoff for a recurrence of the CAS message up to 100 kt. given the runway length available. On the takeoff roll, the same CAS message reappeared at approximately 40 - 50 kt. IAS and the abort was called and initiated. I informed the Control Tower that we were aborting and we were instructed to turn right onto Runway XY and right on Taxiway XX, and to contact Ground Control. I requested from Ground Control a taxi to a position on the airport where we could troubleshoot our issue, including a complete cycling down of the aircraft. We were authorized to do so at our present position on Taxiway XX. We waited 5 - 6 minutes between powering down and powering up the aircraft this time. Again, upon power up, the CAS message had cleared and the PIC, who was again in contact with Company Tech Operations, elected to attempt another takeoff with the hope of returning to ZZZ1, given there were no abnormal indications. I concurred with this decision and we debriefed that we would abort up to 100 kt. for that particular CAS message. We obtained taxi clearance back to Runway XX where we initiated another takeoff, were presented with the same CAS under the same circumstances again, and aborted as previously. I advised the Tower that we were aborting the takeoff on the runway and responded to their inquiry that we did not need assistance. A quick crew discussion regarding the fact that we were now AOG (Aircraft on Ground) and needed to park at an FBO ensued and we elected to park at the FBO. While taxiing in, Ground Control requested the reason for the two aborted takeoffs. I informed them it was an airspeed indicating problem that would require maintenance, but

asked them not to cancel our flight plan. While parked at the FBO, the PIC interfaced with Tech Operations regarding the issue while on APU power and engines shut down. I overheard them stating that a probable cause was FOD in the standby instrument pitot probe, since we had determined that the airspeed discrepancy was in the standby instrument, #3 source. I immediately exited the aircraft and checked the probe, finding a large bumble bee hanging half out of the probe, fully obstructing it. After discussion with the PIC and Tech Operations, we carefully removed all of the bee that we could, seemingly clearing the obstruction. All involved agreed to attempt the takeoff one more time with the cleared obstruction. As our flight plan to ZZZ1 was still active, we taxied out to Runway XY, briefed as previously, and were able to conduct a normal takeoff without abnormal indications. The flight to ZZZ1 and subsequent approaches and landings were all uneventful. We advised Corporate Maintenance on engine shutdown to ensure the pitot tube was completely cleaned out before the next flight. All pitot probes were inspected on initial preflight walkaround by both pilots and verified to be clear. The gear pins were removed by the pilots but all other pitot/static/AOA covers, etc., were removed prior to our arrival to the aircraft. It appears that the bee blocked the standby pitot probe at some point on approach, landing or before exiting the runway after landing. The flight crew followed all checklists and were able to solve the issue of the FOD blocked probe with the assistance of Tech Operations. These types of incidents are practically impossible to avoid. Therefore, no suggestions are presented here that could have avoided the situation and resulting operational complications.

## Synopsis

G280 First Officer reported multiple rejected takeoffs while attempting a maintenance check flight. The Flight Crew taxied to an FBO for parking and discovered a large bumble bee obstructing the pitot tube.

## Time / Day

Date : 202203

Local Time Of Day : 1201-1800

## Place

Locale Reference.Airport : ZZZ.Airport

State Reference : US

Relative Position.Distance.Nautical Miles : 9.4

Altitude.AGL.Single Value : 400

## Environment

Flight Conditions : VMC

Weather Elements / Visibility.Visibility : 10

Light : Daylight

Ceiling : CLR

## Aircraft

Reference : X

Aircraft Operator : Commercial Operator (UAS)

Make Model Name : DJI Phantom 4 Pro

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 107

Flight Plan : None

Mission : Utility / Infrastructure

Flight Phase : Cruise

Route In Use : None

Airspace Authorization Provider (UAS) : Authorized Third Party

Operating Under Waivers / Exemptions / Authorizations (UAS) : N

Airworthiness Certification (UAS) : Standard

Weight Category (UAS) : Small

Configuration (UAS) : Multi-Rotor

Flight Operated As (UAS) : VLOS

Flight Operated with Visual Observer (UAS) : Y

Control Mode (UAS) : Autonomous / Fully Automated

Flying In / Near / Over (UAS) : Open Space / Field

Type (UAS) : Purchased

Number of UAS Being Controlled (UAS).Number of UAS : 1

## Person

Location Of Person : Outdoor / Field Station (UAS)

Reporter Organization : Commercial Operator (UAS)

Function.Flight Crew : Remote PIC (UAS)

Qualification.Flight Crew : Remote Pilot (UAS)

Qualification.Flight Crew : Private

Experience.Flight Crew.Total (UAS) : 275

Experience.Flight Crew.Last 90 Days (UAS) : 47

Experience.Flight Crew.Type (UAS) : 50

ASRS Report Number.Accession Number : 1883849

Human Factors : Situational Awareness  
Analyst Callback : Completed

## Events

Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Person : UAS Crew  
When Detected : In-flight  
Result.Aircraft : Aircraft Damaged

## Assessments

Contributing Factors / Situations : Environment - Non Weather Related  
Primary Problem : Environment - Non Weather Related

## Narrative: 1

We were conducting a normal UAS scan at the Location. We had a crew of two for this operation. I was acting as RPIC and maintained visual contact with the UAS during this operation. I had my operator who's job was to manipulate controls for the operation and monitor the data that was coming back from the UAS. Before the operation we went through our pre-flight checks on our checklists, ensure that the drone was fully operational and check the flight automated software. We check the weather, winds were from the east, clear skies, and 10 SM visibility. We both went through the IMSAFE checklists and determined we were safe to conduct the UAS operation at the site. We attached an additional anti-collision strobe light that we use to help us keep track of the drone and assists in making the UAS more visible. When we first started the operation we didn't have many birds in the area, we had a group of crows to the south of the site but it wasn't a factor to the operation. We had successfully brought the UAS back to the Takeoff/Landing area to swap batteries in it. About 40 minutes into the operation and with the 90 percent of the scan complete a flock of thousands of seagulls started moving toward the flight path of the UAS. It seemed that most of the seagulls flew away from the UAS and were going to fly at a higher altitude than the UAS. We started calling the UAS back to the Landing/Takeoff area and getting away from the column of birds. About 30 seconds of the birds moving into the area, a seagull made the decision that it wanted to attack the UAS. So the UAS was attacked and in the process the propellers were broken and the bird was wounded. I watched as this all happened so quickly, and watched as both the UAS and the bird fell 400 feet to [the] ground. We noted where the last location of the UAS and cleaned up the staging area. After arriving to the last location of the UAS we could see that it had fell hard and hit some rocks. All four propellers were broken, the camera had been broken off the frame of the UAS and the battery had ejected itself about 25 feet from the drone. The seagull was dead and the UAS was broken beyond repair. We took photos of the site and the UAS before we picked up the pieces. We notified the site managers of what had happened and we would be back in a few days to attempt another scan with another UAS. We were able to go back and accomplish our goal of finishing the scan for the client. I was able to meet two workers at the site who uses falcons, hawks and RC planes to keep the seagulls out of the Location. I will be coordinating with them next time before I arrive on site so they can move the seagulls at of the area. Hope you are able to learn from this experience as we did.

## Callback: 1

The reported had no additional information to share.

## Synopsis

UAS Pilot reported that while conducting a mission with the assistance of a visual observer a flock of birds flew towards the UAS and one struck the UAS causing a crash.

## Time / Day

Date : 202201

Local Time Of Day : 1201-1800

## Place

Locale Reference.Airport : ZZZ.Airport

State Reference : US

Altitude.AGL.Single Value : 400

## Environment

Flight Conditions : VMC

Weather Elements / Visibility.Visibility : 10

Light : Daylight

Ceiling : CLR

## Aircraft

Reference : X

ATC / Advisory.Center : ZZZ

Aircraft Operator : Corporate

Make Model Name : Light Transport, Low Wing, 2 Turbojet Eng

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 91

Flight Plan : IFR

Mission : Passenger

Flight Phase : Initial Climb

Airspace.Class E : ZZZ

## Person

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Corporate

Function.Flight Crew : Captain

Function.Flight Crew : Pilot Flying

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine

Experience.Flight Crew.Total : 6250

Experience.Flight Crew.Last 90 Days : 50

Experience.Flight Crew.Type : 175

ASRS Report Number.Accession Number : 1872912

## Events

Anomaly.Aircraft Equipment Problem : Critical

Anomaly.Inflight Event / Encounter : Bird / Animal

Detector.Person : Flight Crew

Were Passengers Involved In Event : Y

When Detected : In-flight

Result.Flight Crew : Diverted

## Assessments

Contributing Factors / Situations : Environment - Non Weather Related

Primary Problem : Environment - Non Weather Related

## Narrative: 1

On DATE we were departing from ZZZ around XA:00 local time. We operate a type aircraft and was departing ZZZ to ZZZ1 to return to our home base with 4 passengers onboard. I was flying as PIC of the trip. Shortly after takeoff, we noticed a small flock of large black birds. We estimated the number to be around 5. During this critical phase of flight there was nearly no time to react. One bird struck the nose of our aircraft around 400 ft AGL. It created a loud thump noise throughout the cabin. The pilot monitoring and I assessed the situation and decided the plane was flying as it should, with no indication of engine damage or unusual flight characteristics. Due to the weather impact of ZZZ we decided to fly under 200 kts and head to a more serviceable airport. We diverted to ZZZ2 and checked in with ZZZ Approach to get a VFR clearance into the Bravo then land at ZZZ2. During cruise flight our passengers made us aware that there was blood on our left wing as well. We landed safely at ZZZ2 and parked at [the] FBO. We got out to check the damage and was surprised to see the nose cone damaged significantly. Part of the bird was inside the nose compartment as it made a hole and good size dent to the nose of the aircraft. There was blood as well on the left wing also around the right engine. After a closer look there does not seem to be any damage to the blades of the right engine. We talked to Company at ZZZ3 and to determine what the next steps are. We grounded the aircraft at ZZZ2 and will be in further discussions with maintenance to determine what the next steps will be to get our plane back home safely.

## Synopsis

Corporate Captain reported hitting a bird and then having to deviate.



## Time / Day

Date : 202201

Local Time Of Day : 0601-1200

## Place

Locale Reference.Airport : ZZZ.Airport

State Reference : US

Altitude.AGL.Single Value : 400

## Environment

Flight Conditions : VMC

Light : Daylight

## Aircraft

Reference : X

ATC / Advisory.Tower : ZZZ

Aircraft Operator : Air Carrier

Make Model Name : B737-700

Crew Size.Number Of Crew : 2

Operating Under FAR Part : Part 121

Flight Plan : IFR

Mission : Passenger

Flight Phase : Initial Climb

Route In Use : Vectors

Airspace.Class C : ZZZ

## Component : 1

Aircraft Component : Pitot-Static System

Aircraft Reference : X

Problem : Malfunctioning

## Component : 2

Aircraft Component : Angle of Attack Vane

Aircraft Reference : X

Problem : Malfunctioning

## Person : 1

Location Of Person.Aircraft : X

Location In Aircraft : Flight Deck

Reporter Organization : Air Carrier

Function.Flight Crew : Pilot Flying

Function.Flight Crew : Captain

Qualification.Flight Crew : Air Transport Pilot (ATP)

Qualification.Flight Crew : Instrument

Qualification.Flight Crew : Multiengine

ASRS Report Number.Accession Number : 1871513

Human Factors : Troubleshooting

## Person : 2

Location Of Person.Aircraft : X  
Location In Aircraft : Flight Deck  
Reporter Organization : Air Carrier  
Function.Flight Crew : First Officer  
Function.Flight Crew : Pilot Not Flying  
Qualification.Flight Crew : Air Transport Pilot (ATP)  
Qualification.Flight Crew : Instrument  
Qualification.Flight Crew : Multiengine  
Experience.Flight Crew.Last 90 Days : 150  
Experience.Flight Crew.Type : 6100  
ASRS Report Number.Accession Number : 1871553

## Events

Anomaly.Aircraft Equipment Problem : Critical  
Anomaly.Deviation / Discrepancy - Procedural : Published Material / Policy  
Anomaly.Deviation / Discrepancy - Procedural : Clearance  
Anomaly.Inflight Event / Encounter : Bird / Animal  
Detector.Person : Flight Crew  
Were Passengers Involved In Event : N  
When Detected : In-flight  
Result.General : Maintenance Action  
Result.Flight Crew : Overcame Equipment Problem  
Result.Flight Crew : Requested ATC Assistance / Clarification  
Result.Flight Crew : Landed in Emergency Condition  
Result.Flight Crew : Returned To Departure Airport  
Result.Air Traffic Control : Provided Assistance

## Assessments

Contributing Factors / Situations : Aircraft  
Primary Problem : Aircraft

## Narrative: 1

After liftoff as the nose wheel was retracting, we heard a loud bang approximately under the Captain window. We noted airspeed disagree flags illuminated on PFD. I noted erroneous airspeed readings followed by the red stall warning tape and stick shaker warnings. The stick shaker fired continuously until after landing. We completed the memory items for unreliable airspeed. We complied with the QRC and QRH checklist. The First Officer's instruments were determined to be accurate Per QRH checklist. We requested priority handling with Departure, climbed to a safe altitude, and received vectors back to ZZZ for an uneventful landing with Captain's airspeed and altitude unreliable. We coordinated with Dispatch, informed the Flight Attendants, and made a PA to the Passengers. No Passenger issues were noted. After landing, we taxied to the Gate and were told by Ground Control that Airport Ops found that we hit a hawk. The AOA (Angle Of Attack) vane was missing from the aircraft due to the bird strike. Logbook write up was completed and Dispatch helped coordinate all parties for debrief.

## Narrative: 2

At rotation a loud bang was heard near the Captain's side of the aircraft. After liftoff the Stick Shaker, Airspeed Disagree and Altitude disagree were displayed. Appropriate checklists were accomplished. Appropriate communication was made (ie: Dispatch, Passengers, F/As, ATC). The aircraft returned to ZZZ for a normal landing. Upon arrival at

the gate it was determined that the Captain's side AOA Vane was broken off. Also, a large hawk was found on the Runway shortly after the takeoff.

## Synopsis

B737 flight crew reported a bird strike on takeoff had sheared off the Angle of Attack vane resulting in a loss of airspeed and altitude information and a return to the departure airport.