



National Transportation Safety Board Aviation Incident Data Summary

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|--------------------------------|---------------------------------------|-------------------------|------------|
| Location: | Wichita, KS | Incident Number: | DEN08IA022 |
| Date & Time: | 11/02/2007, 0527 CST | Registration: | N880UP |
| Aircraft: | Douglas DC-8-73F | Injuries: | 4 None |
| Flight Conducted Under: | Part 121: Air Carrier - Non-scheduled | | |

Analysis

The airplane was in cruise flight when the crew detected a strange odor. When the captain opened the cockpit door, he saw smoke in the courier area. The crew donned oxygen masks, declared an emergency, and diverted to the nearest suitable airport. The crew then noticed heavy smoke coming from the lavatory and heard a motor running continuously. The captain discharged a Halon fire extinguisher into the lavatory compartment and the smoke subsided. Post-incident examination revealed the lavatory fan functioned normally, but the recirculation fan, located beneath the lavatory, had seized. The motor end ball bearing, located below the fan rotor, had failed, allowing the motor rotor to make contact with the motor stator.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this incident to be: Failure of the recirculation fan motor end ball bearing.

Findings

Occurrence #1: MISCELLANEOUS/OTHER
Phase of Operation: CRUISE - NORMAL

Findings

1. (C) MISC EQPT/FURNISHINGS,LAVATORIES - SEIZED
2. (C) MISC EQPT/FURNISHINGS,LAVATORIES - SMOKE

Pilot Information

| | | | |
|----------------------------------|---|------------------------------|----------|
| Certificate: | Airline Transport; Commercial | Age: | 52 |
| Airplane Rating(s): | Multi-engine Land; Single-engine Land; Single-engine Sea | Instrument Rating(s): | Airplane |
| Other Aircraft Rating(s): | Helicopter | Instructor Rating(s): | None |
| Flight Time: | 2441 hours (Pilot In Command, all aircraft), 68 hours (Last 90 days, all aircraft), 18 hours (Last 30 days, all aircraft) | | |

Co-Pilot Information

| | | | |
|---------------------------|---|-----------------------|----------|
| Certificate: | Airline Transport | Age: | 32 |
| Airplane Rating(s): | Multi-engine Land | Instrument Rating(s): | Airplane |
| Other Aircraft Rating(s): | None | Instructor Rating(s): | None |
| Flight Time: | 1225 hours (Total, this make and model) | | |

Flight Engineer Information

| | | | |
|---------------------------|----------------------------------|-----------------------|--|
| Certificate: | Flight Engineer | Age: | |
| Airplane Rating(s): | | Instrument Rating(s): | |
| Other Aircraft Rating(s): | | Instructor Rating(s): | |
| Flight Time: | 2711 hours (Total, all aircraft) | | |

Aircraft and Owner/Operator Information

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|------------------------------------|---------------------------------------|----------------------|-------------|
| Aircraft Manufacturer: | Douglas | Registration: | N880UP |
| Model/Series: | DC-8-73F | Engines: | 4 Turbo Fan |
| Operator: | United Parcel Service | Engine Manufacturer: | |
| Air Carrier Operating Certificate: | Flag carrier (121) | Engine Model/Series: | |
| Flight Conducted Under: | Part 121: Air Carrier - Non-scheduled | | |

Meteorological Information and Flight Plan

| | | | |
|----------------------------------|----------------------------------|------------------------------|------------------------------|
| Observation Facility, Elevation: | ICT, 1333 ft msl | Weather Information Source: | Weather Observation Facility |
| Conditions at Accident Site: | Visual Conditions | Lowest Ceiling: | None |
| Condition of Light: | Dawn | Wind Speed/Gusts, Direction: | Calm |
| Temperature: | 3°C / -1°C | Visibility | 10 Miles |
| Precipitation and Obscuration: | No Obscuration; No Precipitation | | |
| Departure Point: | Louisville, KY (SDF) | Destination: | Ontario, CA (ONT) |

Wreckage and Impact Information

| | | | |
|---------------------|--------|---------------------|-------|
| Crew Injuries: | 3 None | Aircraft Damage: | Minor |
| Passenger Injuries: | 1 None | Aircraft Fire: | None |
| Ground Injuries: | N/A | Aircraft Explosion: | None |

Administrative Information

Investigator In Charge (IIC): Arnold W Scott

Adopted Date: 03/31/2008

Investigation Docket: NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinq@ntsb.gov, or at 800-877-6799. Dockets released after this date are available at <http://dms.nts.gov/pubdms/>.

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