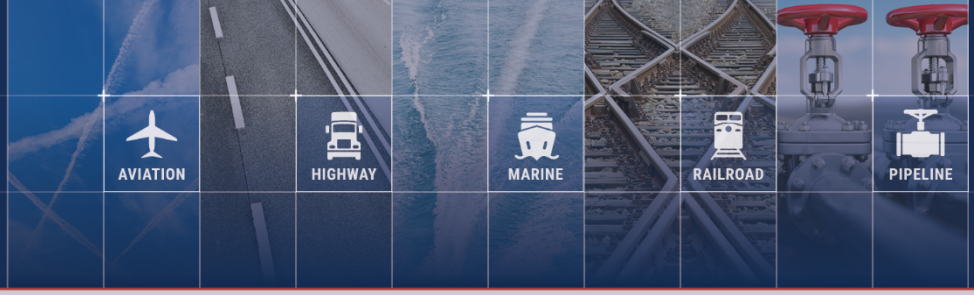

Aviation Investigation Final Report

Location:	SANTA ANA, California	**Incident Number:**	LAX84IA461
Date & Time:	September 27, 1983, 12:55 Local	**Registration:**	N302RC
Aircraft:	McDonnell Douglas DC-9-82	**Aircraft Damage:**	None
Defining Event:		**Injuries:**	79 None
Flight Conducted Under:	Part 121: Air carrier - Scheduled		

Analysis

JUST AFTER TAKEOFF THE LEFT ENGINE FAILED DUE TO A FATIGUE FAILURE OF THE 7 TH STAGE REAR COMPRESSION STATOR ASSEMBLY SEVERAL HOMES UNDER THE FLIGH PATH SUSTAINED FIRE & DEBRIS DAMAGE WHEN ENGINE PARTS DEPARTED THE ACFT. THE ACFT RETURNEDTO THE AIRPORT AND LANDED WITHOUT FURTHER INCIDENT.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this incident to be:

Findings

Occurrence #1: LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings
1. (C) COMPRESSOR ASSEMBLY,BLADE - SEPARATION
2. (C) COMPRESSOR ASSEMBLY,BLADE - FATIGUE

Factual Information

Pilot Information

Certificate:	Airline transport; Commercial	**Age:**	49,Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	**Seat Occupied:**	Left
Other Aircraft Rating(s):	Glider	**Restraint Used:**	
Instrument Rating(s):	Airplane	**Second Pilot Present:**	Yes
Instructor Rating(s):		**Toxicology Performed:**	No
Medical Certification:	Class 1 Valid Medical--w/ waivers/lim	**Last FAA Medical Exam:**	July 15, 1983
Occupational Pilot:	Yes	**Last Flight Review or Equivalent:**	
Flight Time:	27300 hours (Total, all aircraft), 7300 hours (Total, this make and model), 220 hours (Last 90 days, all aircraft), 5 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	McDonnell Douglas	**Registration:**	N302RC
Model/Series:	DC-9-82 DC-9-82	**Aircraft Category:**	Airplane
Year of Manufacture:		**Amateur Built:**	
Airworthiness Certificate:	Transport	**Serial Number:**	48055
Landing Gear Type:	Retractable - Tricycle	**Seats:**	172
Date/Type of Last Inspection:	Continuous airworthiness	**Certified Max Gross Wt.:**	140000 lbs
Time Since Last Inspection:		**Engines:**	2 Turbo fan
Airframe Total Time:		**Engine Manufacturer:**	P&W
ELT:	Not installed	**Engine Model/Series:**	1
Registered Owner:	REPUBLIC AIRLINES INC.	**Rated Power:**	20850 Lbs thrust
Operator:		**Operating Certificate(s) Held:**	Flag carrier (121)
Operator Does Business As:		**Operator Designator Code:**	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	**Condition of Light:**	Day
Observation Facility, Elevation:	SNA ,54 ft msl	**Distance from Accident Site:**	
Observation Time:	12:45 Local	**Direction from Accident Site:**	
Lowest Cloud Condition:	Scattered	**Visibility**	
Lowest Ceiling:	None	**Visibility (RVR):**	
Wind Speed/Gusts:	15 knots /	**Turbulence Type Forecast/Actual:**	/
Wind Direction:	190°	**Turbulence Severity Forecast/Actual:**	/
Altimeter Setting:		**Temperature/Dew Point:**	23°C / 16°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:		**Type of Flight Plan Filed:**	IFR
Destination:	MINNEAPOLIS , MN (MSP)	**Type of Clearance:**	IFR
Departure Time:	09:54 Local	**Type of Airspace:**	Class D

Airport Information

Airport:	JOHN WAYNE SNA	**Runway Surface Type:**	Asphalt
Airport Elevation:	54 ft msl	**Runway Surface Condition:**	Dry
Runway Used:	19	**IFR Approach:**	None
Runway Length/Width:	5700 ft / 150 ft	**VFR Approach/Landing:**	Traffic pattern

Wreckage and Impact Information

Crew Injuries:	5 None	**Aircraft Damage:**	None
Passenger Injuries:	74 None	**Aircraft Fire:**	In-flight
Ground Injuries:	N/A	**Aircraft Explosion:**	None
Total Injuries:	79 None	**Latitude, Longitude:**	33.710384,-117.869514(est)

Administrative Information

Investigator In Charge (IIC):	Llorente, A.
Additional Participating Persons:	
Original Publish Date:	
Last Revision Date:	
Investigation Class:	Class
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=24048