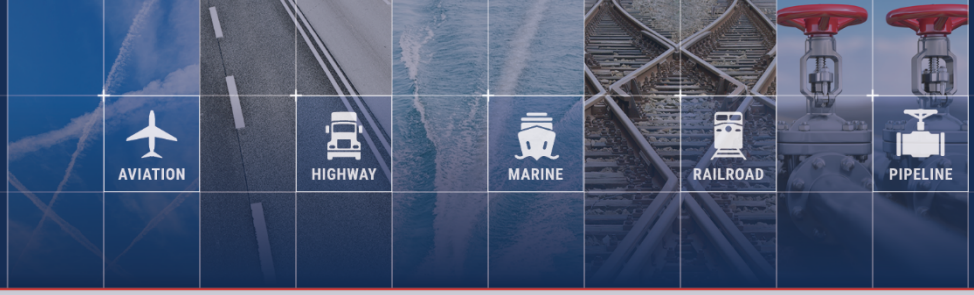

Aviation Investigation Final Report

Location:	SARASOTA, Florida	**Accident Number:**	MIA93LA125
Date & Time:	May 20, 1993, 16:18 Local	**Registration:**	N46937
Aircraft:	HILLER UH-12C	**Aircraft Damage:**	Substantial
Defining Event:		**Injuries:**	2 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

THE COMMERCIAL PILOT WAS IN CRUISE FLIGHT AT ABOUT 400 FEET AGL WHEN HE OBSERVED A SUDDEN DROP IN ENGINE RPM FOLLOWED BY AN INCREASE IN RPM. THE PILOT INITIATED A FORCED LANDING BY ENTERING AN AUTOROTATION. DURING THE DECELERATION THE HELICOPTER COLLIDED WITH POWER LINES AND CRASHED. REVIEW OF THE HELICOPTER LOGBOOKS REVEALED THE CARBURETOR FLOAT ASSEMBLY HAD NOT BEEN CHANGED, AND NUMEROUS SERVICE BULLETIN PROCEDURES PERTAINING TO THE MA 4-5 CARBURETOR HAD NOT BEEN PERFORMED. DISASSEMBLY INSPECTION OF THE CARBURETOR REVEALED THE CARBURETOR WAS CONTAMINATED. SAND WAS PRESENT IN THE CARBURETOR BOWL, THE FUEL INLET ASSEMBLY WAS DIRTY AND THE PUMP PLUNGER ASSEMBLY WAS RUSTY.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT-IN-COMMAND'S IMPROPER APPLICATION OF THE FLIGHT CONTROLS DURING AN AUTOROTATIVE LANDING, RESULTING IN AN IN-FLIGHT COLLISION WITH WIRES AND TERRAIN. CONTRIBUTING TO THE ACCIDENT WAS THE IMPROPER INSPECTION OF THE ENGINE FUEL SYSTEM (CARBURETOR) BY MAINTENANCE PERSONNEL, RESULTING IN A CONTAMINATED CARBURETOR AND A PARTIAL LOSS OF ENGINE POWER WHILE IN CRUISE FLIGHT.

Findings

Occurrence #1: LOSS OF ENGINE POWER(PARTIAL) - NONMECHANICAL
Phase of Operation: CRUISE - NORMAL

Findings
1. (F) FUEL SYSTEM,CARBURETOR - CONTAMINATION
2. (F) MAINTENANCE,SERVICE BULLETIN/LETTER - NOT PERFORMED - OTHER MAINTENANCE PERSONNEL
3. (F) MAINTENANCE,INSPECTION - NOT PERFORMED - OTHER MAINTENANCE PERSONNEL

Occurrence #2: FORCED LANDING
Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: IN FLIGHT COLLISION WITH OBJECT
Phase of Operation: DESCENT - EMERGENCY

Findings
4. OBJECT - WIRE,STATIC
5. (C) FLIGHT CONTROLS - IMPROPER USE OF - PILOT IN COMMAND

Factual Information

Pilot Information

Certificate:	Commercial	**Age:**	46,Male
Airplane Rating(s):	None	**Seat Occupied:**	Left
Other Aircraft Rating(s):	Helicopter	**Restraint Used:**	
Instrument Rating(s):	None	**Second Pilot Present:**	No
Instructor Rating(s):	None	**Toxicology Performed:**	No
Medical Certification:	Class 2 Valid Medical--w/ waivers/lim	**Last FAA Medical Exam:**	March 8, 1993
Occupational Pilot:	No	**Last Flight Review or Equivalent:**	
Flight Time:	2068 hours (Total, all aircraft), 158 hours (Total, this make and model), 1099 hours (Pilot In Command, all aircraft), 61 hours (Last 90 days, all aircraft), 22 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	HILLER	**Registration:**	N46937
Model/Series:	UH-12C UH-12C	**Aircraft Category:**	Helicopter
Year of Manufacture:		**Amateur Built:**	
Airworthiness Certificate:	Normal	**Serial Number:**	862
Landing Gear Type:	Skid	**Seats:**	3
Date/Type of Last Inspection:	May 10, 1993 100 hour	**Certified Max Gross Wt.:**	2500 lbs
Time Since Last Inspection:	12 Hrs	**Engines:**	1 Reciprocating
Airframe Total Time:	4308 Hrs	**Engine Manufacturer:**	FRANKLIN
ELT:	Not installed	**Engine Model/Series:**	6V335
Registered Owner:	JOCHER, ARTHUR H.	**Rated Power:**	210 Horsepower
Operator:	JOCHER, ARTHUR H.	**Operating Certificate(s) Held:**	None
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:	SRQ ,28 ft msl	**Distance from Accident Site:**	2 Nautical Miles
Observation Time:	15:47 Local	**Direction from Accident Site:**	270°
Lowest Cloud Condition:	Scattered / 2000 ft AGL	**Visibility**	
Lowest Ceiling:	None	**Visibility (RVR):**	
Wind Speed/Gusts:	9 knots /	**Turbulence Type Forecast/Actual:**	/
Wind Direction:	260°	**Turbulence Severity Forecast/Actual:**	/
Altimeter Setting:	29 inches Hg	**Temperature/Dew Point:**	28°C / 21°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	(NONE)	**Type of Flight Plan Filed:**	None
Destination:	(NONE)	**Type of Clearance:**	None
Departure Time:	16:00 Local	**Type of Airspace:**	Class D;Class E

Airport Information

Airport:		**Runway Surface Type:**	
Airport Elevation:	0 ft msl	**Runway Surface Condition:**	
Runway Used:	0	**IFR Approach:**	None
Runway Length/Width:	0 ft / 0 ft	**VFR Approach/Landing:**	Forced landing

Wreckage and Impact Information

Crew Injuries:	1 None	**Aircraft Damage:**	Substantial
Passenger Injuries:	1 None	**Aircraft Fire:**	None
Ground Injuries:	N/A	**Aircraft Explosion:**	None
Total Injuries:	2 None	**Latitude, Longitude:**	27.250808,-82.380973(est)

Administrative Information

Investigator In Charge (IIC):	Smith, Carrol
Additional Participating Persons:	DEBORA CATRON; ORLANDO , FL
Original Publish Date:	December 3, 1993
Last Revision Date:	
Investigation Class:	Class
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=33271