

NATIONAL TRANSPORTATION SAFETY BOARD PILOT/OPERATOR AIRCRAFT ACCIDENT/INCIDENT REPORT

This form to be used for reporting civil and public aircraft accidents and incidents

BASIC INFORMATION

Accident/Incident Location

Nearest City/Place: STOCKBRIDGE State: MI
 ZIP: 49285 Country: USA
 Latitude: _____ Longitude: _____
(Enter in decimal degrees or degrees:minutes:seconds)

Accident/Incident Date/Time

Date: 02/13/2018 Local Time: 2:25 pm
mm/dd/yyyy Time Zone: central
 Collision with Other Aircraft: ☐ Midair ☐ On-ground ☒ None

AIRCRAFT INFORMATION

Registration Number: 471RA
 Manufacturer: SCHWEIZER
 Model: 269D
 Serial Number: 0071A
 Year of Manufacture: 2008
 Amateur-Built: ☐ Yes ☒ No If Yes: ☐ Kit/Plans ☐ Original Design Make: _____

- ☐ IFR-Equipped and Certified
☐ Commercial Space Flight
☐ Unmanned Aircraft

Maximum Gross Weight: 2550 lbs
 Weight at Time of Accident/Incident: 2120 lbs
 Number of Seats: 4 Flight Crew Seats: 2
 Cabin Crew Seats: _____ Passenger Seats: 2
 Number of Engines: 1

Category of Aircraft

- ☐ Airplane
☐ Balloon
☐ Blimp/Dirigible
☐ Glider
☐ Gyroplane
☒ Helicopter
☐ Powered Lift
☐ Rocket
☐ Ultralight
☐ Unknown

Type of Airworthiness Certificate (Check all that apply)

- Standard**
☒ Normal
☐ Aerobatic
☐ Balloon
☐ Commuter
☐ Transport
☐ Utility
☐ Certificate of Authorization or Waiver (COA)
☐ None
- Special**
☐ Restricted
☐ Limited
☐ Provisional
☐ Special Flight
☐ Experimental
☐ Special Light-Sport
☐ Experimental Light-Sport
☐ Unknown

Landing Gear

- (Check all that apply)*
☐ Retractable
☐ Tricycle
☐ Amphibian
☐ Emergency Float
☐ Float
☐ Hull
☐ Other Launch/Recovery System
☐ None
- ☐ Tailwheel
☒ High Skid
☐ Skid
☐ Ski
☐ Ski/Wheel
☐ Unknown

Engine Type (Select one)

- ☐ Reciprocating
☒ Turbo Shaft
☐ Turbo Prop
☐ Turbo Jet
☐ Turbo Fan
☐ Electric
☐ Liquid Rocket
☐ Solid Rocket
☐ Hybrid Rocket
☐ None
☐ Unknown

Fuel System Type (Reciprocating)

- ☐ Carburetor ☐ Fuel-Injected

Engine	Engine Manufacturer	Engine Model/Series	Manufacturer's Serial Number	Date of Mfg. <i>mm/dd/yyyy</i>	Rated Power <input checked="" type="radio"/> Horsepower or <input type="radio"/> lbs of Thrust	Total Time (hours)	Time Since: Inspection (hours)	Overhaul (hours)
Eng. 1	<u>ROBEY-ROYCE</u>	<u>C20-W</u>	<u>CAE-845217</u>		<u>280/250</u>	<u>413</u>	<u>1.5</u>	
Eng. 2				<u>06/14/2007</u>				
Eng. 3								
Eng. 4								

Last Inspection Type

- ☐ 100-Hour ☐ Continuous Airworthiness
☐ AAIP ☐ Conditional Inspection
☒ Annual ☐ Unknown

Date Last Inspection: 11/22/2017
mm/dd/yyyy

Airframe Total Time: 412.3 hrs
 hours measured at *(Select one)*
☒ Last Inspection ☐ Time of Accident/Incident

Propeller 1

- ☐ Fixed Pitch
☐ Controllable Pitch
☐ Ground Adjustable

Manufacturer: _____
 Model: _____

Propeller 2

- ☐ Fixed Pitch
☐ Controllable Pitch
☐ Ground Adjustable

Manufacturer: _____
 Model: _____

ELT Installed: ☐ Yes ☒ No

If Yes:
 ELT Manufacturer: _____
 Model or Part No.: _____
 TSO No.: ☐ C91 (121.5 MHz) ☐ C91a (121.5 MHz)
☐ C126 (406 MHz)

Was ELT still mounted in aircraft? ☐ Yes ☐ No
 Was ELT still connected to antenna? ☐ Yes ☐ No
 Did ELT Activate? ☐ Yes ☐ No
 If activated:
 Did ELT Aid in Locating Aircraft? ☐ Yes ☐ No

If not activated:
 Indicate Reason: ☐ Impact Damage
☐ Fire Damage
☐ Battery Expired/Damaged
☐ Unknown

Additional Equipment (Check all that apply)

- ☐ ADS-B
☐ Airframe Parachute
☐ Angle of Attack Indicator
☐ Autopilot
☐ Data Recorder
☐ Electronic Flight Bag or Handheld Device
☐ Electronic Multifunction Display
☐ Electronic Primary Flight Display
☐ Handheld GPS
☐ Heads Up Display
☐ Onboard Weather
☐ Satellite Tracking Device
☐ Stall Warning System
☐ Video Recording Device
☐ Other, Specify: _____

Type of Maintenance Program (Select one)

- ☒ Annual
☐ Conditional (Amateur-built only)
☐ Manufacturer's Inspection Program
☐ Other Approved Inspection Program (AAIP)
☐ Continuous Airworthiness
☐ Other, specify: _____

Description of Fire Extinguishing System

- ☐ None
☐ Specify: _____

OWNER/OPERATOR INFORMATION**Registered Aircraft Owner**Name: CARRON LLCCity: PLEASANT LAKEState: MI. ZIP: 49272Fractional Ownership Aircraft: ☐ Yes ☐ NoCountry: USA**Operator of Aircraft**☐ Same As Registered OwnerName: CHRISTOPHER ANDREW SALOW☐ Same Address as Registered OwnerCity: STOCKBRIDGE

Doing Business As: _____

State: MI. ZIP: 49285

Air Carrier/Operator Designator (4 Character Code): _____

Country: USA**Operating Certificates Held**

(Check all that apply)

- ☒ None
☐ Flag Carrier Operating Certificate (FAR 121)
☐ Supplemental
☐ Air Cargo
☐ Foreign Air Carriers (FAR 129)
☐ Rotorcraft External Load (FAR 133)
☐ Commuter Air Carrier (FAR 135)
☐ On-Demand Air Taxi (FAR 135)
☐ Commercial Air Tour (FAR 136)
☐ Agricultural Aircraft (FAR 137)
☐ Pilot School (FAR 141)
☐ Certificate of Authorization or Waiver (COA)
☐ Commercial Space Transportation
Experimental Permit
☐ Commercial Space Transportation License
☐ Other Operator of Large Aircraft

Regulation Flight Conducted Under

- ☐ FAR 91 ☐ FAR 129 ☐ FAR 415
☐ FAR 103 ☐ FAR 133 ☐ FAR 431
☐ FAR 121 ☐ FAR 135 ☐ FAR 435
☐ FAR 125 ☐ FAR 137 ☐ FAR 437

☐ FAR 91 Special Flight
☐ Non-US, Commercial
☐ Non-US, Non-commercial

☐ Public Aircraft (Select one)
☐ Armed Forces
☐ Federal
☐ State
☐ Local
☐ Unknown

Revenue Operation for FAR 121, 125, 129, 135

(Select one for each group)

- ☐ Scheduled or Commuter ☐ Domestic
☐ Non-Scheduled or Air Taxi ☐ International

☐ Passenger
☐ Cargo
☐ Mail Contract Only

Purpose of Flight for FAR 91, 103, 133, 137

(Select one)

- ☐ Aerial Application ☐ Firefighting ☐ Unknown
☐ Aerial Observation ☐ Flight Test
☐ Air Drop ☐ Glider Tow
☐ Air Race/Show ☐ Instructional
☐ Banner Tow ☐ Other Work Use
☐ Business ☐ Personal
☐ Executive/Corporate ☐ Positioning
☐ External Load ☐ Skydiving
☐ Ferry

Revenue Sightseeing Flight☐ Yes ☐ No**Air Medical Flight**☐ Yes ☐ No**AIRPORT INFORMATION (Fill in if accident/incident occurred on approach, landing, takeoff, departure, or within 3 miles of an airport)**

Airport Name: _____

Distance From Airport Center: _____ sm

Airport Identifier: _____

Direction From Airport: _____ degrees true

Proximity to Airport: ☐ Off Airport/Airstrip ☐ On Airport/Airstrip ☐ N/A

Airport Elevation: _____ ft. msl

Runway Information

Runway ID: _____ (L/R/C) Length: _____ ft Width: _____ ft

Runway/Landing Surface (Check all that apply)

- ☐ Asphalt ☐ Grass/Turf ☐ Macadam ☐ Water
☐ Concrete ☐ Gravel ☐ Metal/Wood
☐ Dirt ☐ Ice ☐ Snow ☐ Unknown

Condition of Runway/Landing Surface (Check all that apply)

- ☐ Dry ☐ Snow-Compacted ☐ Water-Calm
☐ Holes ☐ Snow-Crusted ☐ Water-Choppy
☐ Ice Covered ☐ Snow-Dry ☐ Water-Glassy
☐ Rough ☐ Snow-Wet ☐ Wet
☐ Rubber Deposits ☐ Soft
☐ Slush-Covered ☐ Vegetation ☐ Unknown

Approach/Departure Segment (Select one)

- ☐ Taxi ☐ VFR Departure ☐ On Instrument Approach ☐ Downwind ☐ Low Approach
☐ Takeoff ☐ IFR Departure Procedure/Clearance ☐ Landing ☐ Base ☐ Go Around
☐ Initial Climb ☐ Final ☐ Aborted Landing (after touchdown)
☐ Crosswind ☐ Unknown

IFR Approach (Check all that apply)

- ☐ None
☐ ADF/NDB ☐ PAR ☐ MLS ☐ Practice
☐ SDF ☐ Sidestep ☐ LDA ☐ GPS
☐ VOR/TVOR ☐ ILS ☐ ASR ☐
☐ VOR/DME ☐ Localizer Only ☐ Visual
☐ TACAN ☐ LOC-back course ☐ Contact
☐ RNAV ☐ Circling
☐ Unknown

VFR Approach (Check all that apply)

- ☐ None
☐ Traffic Pattern ☐ Stop and Go
☐ Straight-In ☐ Touch and Go
☐ Valley/Terrain Following ☐ Simulated Forced Landing
☐ Go Around ☐ Forced Landing
☐ Full Stop ☐ Precautionary Landing
☐ Unknown

"FLIGHT CREWMEMBER 1" INFORMATION

"Flight Crewmember 1" Responsibilities at the Time of Accident/Incident

☒ Pilot
 ☐ Co-Pilot
 ☐ Student Pilot
 ☐ Flight Instructor
 ☐ Check Pilot
 ☐ Flight Engineer
 ☐ Other Flight Crew

"Flight Crewmember 1" was pilot flying
☒ Yes
 ☐ No

"Flight Crewmember 1" Identification

First Name: CHRISTOPHER ~~ANDERSON~~ ~~SALOW~~
 City of Residence: Stockbridge

Middle Initial: A
 State: Mi.
 ZIP: 49285

Last Name: SALOW
 Country: USA

Age at time of Accident/Incident: 59
 Date of Birth: [REDACTED] mm/dd/yyyy

Certificate Number: [REDACTED]

Degree of Injury

☐ None
 ☐ Fatal
☒ Minor
 ☐ Unknown
☐ Serious

Seat Occupied

☒ Left
 ☐ Front
 ☐ Unknown
☐ Right
 ☐ Rear
☐ Center
 ☐ Single

Restraint Type

Available	Used
<input type="radio"/> None	<input type="radio"/> None
<input type="radio"/> Lap only	<input type="radio"/> Lap only
<input type="radio"/> 3-point	<input type="radio"/> 3-point
<input type="radio"/> 4-point	<input checked="" type="radio"/> 4-point
<input type="radio"/> 5-point	<input type="radio"/> 5-point
<input type="radio"/> Unknown	<input type="radio"/> Unknown

Inflatable Restraints

☐ Not Installed
☐ Installed
☐ Not Deployed
☐ Deployed
☐ Unknown

Pilot Certificate(s) (Check all that apply)

☐ None
 ☐ Flight Instructor
 ☐ Commercial
 ☐ US Military
☒ Private
 ☐ Recreational
 ☐ Airline Transport
 ☐ Foreign
☐ Student
 ☐ Sport
 ☐ Flight Engineer

Principal Occupation

☐ Pilot
☒ Other
☐ Unknown

Medical Certificate

☐ None
 ☒ Class 3
☐ Class 1
 ☐ Driver's License (Sport Pilot only)
☐ Class 2
 ☐ Unknown

Medical Certificate Validity

☐ Without limitations/waivers
 ☐ Unknown
☐ With limitations/waivers
 ☐ N/A
☒ Special Issuance

Date of Last Medical

08/16/2017
 mm/dd/yyyy

Medical Certificate Limitations

Medical Certificate Special Issuance

Title 14 - CFR's 67.401

Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks:

01/17/2018
 mm/dd/yyyy

Flight Review Aircraft

Make: SCHWEIZER
 Model: 2690 (333)

Airplane Rating(s) (Check all that apply)

☐ None
☒ Single-Engine Land
☐ Single-Engine Sea
☐ Multiengine Land
☐ Multiengine Sea

Other Aircraft Rating(s) (Check all that apply)

☐ None
☐ Airship
☐ Balloon
☐ Glider
☐ Gyroplane
☒ Helicopter
☐ Powered Lift

Instrument Rating(s) (Check all that apply)

☒ None
☐ Airplane
☐ Helicopter
☐ Powered Lift

Instructor Rating(s) (Check all that apply)

☒ None
☐ Airplane Single-Engine
☐ Airplane Multi-Engine
☐ Gyroplane
☐ Powered Lift
☐ Instrument Airplane
☐ Instrument Helicopter
☐ Helicopter
☐ Glider
☐ Sport

Type Ratings

Student Endorsements (Include dates)

Flight Time (Enter appropriate number of hours in each box)	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air
						Actual	Simulated			
Total Time	799.3	287	449					350		
Pilot in Command (PIC)		270	380					270		
Time as Instructor										
This Make/Model										
Last 90 Days	1.5									
Last 30 Days	1.5									
Last 24 Hours	0									

ADDITIONAL FLIGHT CREWMEMBERS (Exclusive of cabin crew, complete the following information)										
Crew Name and Address First Name: _____ City of Residence: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____					Seat Occupied <input type="radio"/> Left <input type="radio"/> Front <input type="radio"/> Center <input type="radio"/> Rear <input type="radio"/> Right <input type="radio"/> Single <input type="radio"/> <input type="radio"/> Unknown		Injury <input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown			
Pilot Certificate(s) (Check all that apply) <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> None <input type="checkbox"/> Flight Instructor <input type="checkbox"/> Private <input type="checkbox"/> Recreational <input type="checkbox"/> Student <input type="checkbox"/> Sport </div> <div> <input type="checkbox"/> Commercial <input type="checkbox"/> US Military <input type="checkbox"/> Airline Transport <input type="checkbox"/> Foreign <input type="checkbox"/> Flight Engineer </div> </div>					Restraint Type: <div style="display: flex;"> <div style="flex: 1;"> Available <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown </div> <div style="flex: 1;"> Used <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown </div> </div>		Inflatable Restraints <input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown			
Type Rating/Endorsement for Accident/Incident Aircraft? <input type="checkbox"/> Yes <input type="checkbox"/> No			Total Flight Time at the Time of this Accident/Incident: _____ hrs							
Crew Name and Address First Name: _____ City of Residence: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____					Seat Occupied <input type="radio"/> Left <input type="radio"/> Front <input type="radio"/> Center <input type="radio"/> Rear <input type="radio"/> Right <input type="radio"/> Single <input type="radio"/> <input type="radio"/> Unknown		Injury <input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown			
Pilot Certificate(s) (Check all that apply) <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> None <input type="checkbox"/> Flight Instructor <input type="checkbox"/> Private <input type="checkbox"/> Recreational <input type="checkbox"/> Student <input type="checkbox"/> Sport </div> <div> <input type="checkbox"/> Commercial <input type="checkbox"/> US Military <input type="checkbox"/> Airline Transport <input type="checkbox"/> Foreign <input type="checkbox"/> Flight Engineer </div> </div>					Restraint Type: <div style="display: flex;"> <div style="flex: 1;"> Available <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown </div> <div style="flex: 1;"> Used <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown </div> </div>		Inflatable Restraints <input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown			
Type Rating/Endorsement for Accident/Incident Aircraft? <input type="checkbox"/> Yes <input type="checkbox"/> No			Total Flight Time at the Time of this Accident/Incident: _____ hrs							
PASSENGER(S) / OTHER PERSONNEL (Include cabin crew, continue on separate sheet if necessary)										
Name and Address First Name: <u>Barrie</u> City: <u>Jackson</u> Middle Initial: <u>A.</u> State: <u>MI</u> ZIP: <u>49201</u> Last Name: <u>Sackman</u> Country: <u>USA</u> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <input type="radio"/> Crew <input checked="" type="radio"/> Passenger <input type="radio"/> Other </div>			Seat <input type="radio"/> Left <input type="radio"/> Center <input checked="" type="radio"/> Right <input type="radio"/> Unknown Row: _____	Injury <input type="radio"/> None <input checked="" type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown	Restraint Type <div style="display: flex;"> <div style="flex: 1;"> Available <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown </div> <div style="flex: 1;"> Used <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input checked="" type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown </div> </div>		Inflatable Restraints <input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown		Age <input type="checkbox"/> Under 5 years If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown	
Name and Address First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____ <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other </div>			Seat <input type="radio"/> Left <input type="radio"/> Center <input type="radio"/> Right <input type="radio"/> Unknown Row: _____	Injury <input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown	Restraint Type <div style="display: flex;"> <div style="flex: 1;"> Available <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown </div> <div style="flex: 1;"> Used <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown </div> </div>		Inflatable Restraints <input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown		Age <input type="checkbox"/> Under 5 years If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown	
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FLIGHT ITINERARY INFORMATION

Last Departure Point

Airport ID: Home
City: STOCKBRIDGE
State: MI
Country: USA

Time of Departure

Time: 2:25 PM
Time Zone: Central

Destination

Airport ID: ARB after
City: Ann Arbor Haver
State: MI CK
Country: USA

Type Flight Plan Filed

☒ None ☐ VFR/IFR
☐ Company VFR ☐ IFR
☐ Military VFR ☐ Unknown
☐ VFR
Activated? ☐ Yes ☐ No ☐ Unknown

Type of ATC Clearance/Service (Check all that apply)

☒ None ☐ Special VFR ☐ Special IFR ☐ VFR Flight Following ☐ Cruise
☐ VFR ☐ IFR ☐ VFR On Top ☐ Traffic Advisory ☐ Unknown / NA

Airspace where the accident/incident occurred (Check all that apply)

☐ Class A ☐ Class G ☐ Military Operations Area (MOA) ☐ Special ☐ Altitude of In-Flight
☐ Class B ☐ Demo Area ☐ Airport Advisory Area ☐ Air Traffic Control Area ☐ Occurrence:
☐ Class C ☐ Warning Area ☐ Jet Training Area ☒ Unknown ☐ 960 ft msl
☐ Class D ☐ Prohibited Area ☐ TRSA
☐ Class E ☐ Restricted Area ☐ FAR 93

WEATHER INFORMATION AT THE ACCIDENT/INCIDENT SITE

Source of Pilot Weather Information

(Check all that apply)

☐ National Weather Service ☐ Company
☐ Flight Service Station ☐ Military
☐ TV/Radio ☐ Internet
☐ Automated Report ☒ None
☐ Commercial Weather Service (DUATS) ☐ Unknown
☐ On-Board Weather

Weather Observation Facility

Facility ID: _____
Observation Time: _____
Time Zone: _____
Distance from Accident Site: _____ nm
Direction from Accident Site: _____ degrees true

Basic Conditions

☒ VMC
☐ IMC
☐ Unknown

Light Condition

☐ Dawn ☐ Dusk ☐ Dark Night ☐ Unknown
☒ Day ☐ Night ☐ Bright Night

Sky/Lowest Cloud Condition

☒ Clear ☐ Thin Broken
☐ Few ☐ Thin Overcast
☐ Partial Obscuration ☐ Unknown
☐ Scattered

Lowest Cloud Condition Height

_____ ft agl

Ceiling

☒ None (Clear) ☐ Obscured
☐ Broken ☐ Indefinite
☐ Overcast ☐ Unknown

Ceiling Height

_____ ft agl

Temperature: _____ (C) or 25 (F)

Dew Point: _____ (C) or _____ (F)

Altimeter Setting: _____ in. Hg
or _____ MB

Wind Direction

☐ Variable

-or-
Direction: _____ degrees true

Wind Speed

☐ Calm
☐ Light and Variable

-or-
Speed: 5 or less kts

Wind Gusts

☒ Not Gusting

-or-
Speed: _____ kts

Visibility 20 + miles

RVR: _____ feet

RVV: _____ miles

Density Altitude: _____ ft

Intensity of Precipitation

☐ Light
☐ Moderate
☐ Heavy
☐ N/A
☐ Unknown

Type of Precipitation (Check all that apply)

☒ None ☐ Drizzle ☐ Freezing Rain
☐ Rain ☐ Ice Pellets ☐ Snow Shower
☐ Snow ☐ Snow Pellets ☐ Ice Pellets Shower
☐ Hail ☐ Snow Grains ☐ Freezing Drizzle
☐ Rain Showers ☐ Ice Crystals

Restriction to Visibility (Check all that apply)

☒ None ☐ Fog
☐ Blowing Dust ☐ Ground Fog
☐ Blowing Sand ☐ Haze
☐ Blowing Snow ☐ Ice Fog
☐ Blowing Spray ☐ Smoke
☐ Dust ☐ Unknown

Icing Forecast

Amount Type
☒ None ☐ N/A
☐ Trace ☐ Rime
☐ Light ☐ Clear
☐ Moderate ☐ Mixed
☐ Severe ☐ Unknown
☐ Unknown

Icing Actual

Amount Type
☐ None ☐ N/A
☐ Trace ☐ Rime
☐ Light ☐ Clear
☐ Moderate ☐ Mixed
☐ Severe ☐ Unknown
☐ Unknown

Turbulence

Type (Check all that apply) Severity
☒ None ☐ Light
☐ Clear Air ☐ Moderate
☐ Terrain-Induced ☐ Severe
☐ Convective Turbulence ☐ Extreme

NOTAMS (D and FDC), AIRMETS, SIGMETs, PIREPs in effect at the time of the accident/incident:

DAMAGE TO AIRCRAFT AND OTHER PROPERTY**Aircraft Damage**

- ☐ None ☒ Substantial
☐ Minor ☐ Destroyed
 ☐ Unknown

Aircraft Fire

- ☐ None ☐ Both Ground and In-Flight
☐ In-Flight ☐ Fire at Unknown Time
☐ On-Ground ☒ Unknown

Aircraft Explosion

- ☒ None ☐ Both Ground and In-Flight
☐ In-Flight ☐ Explosion at Unknown Time
☐ On-Ground ☐ Unknown

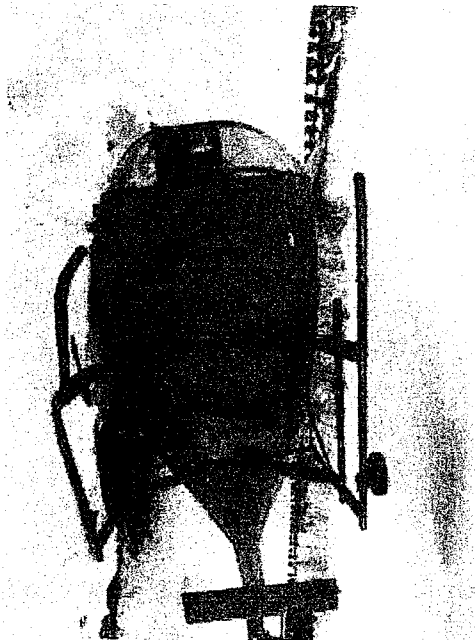
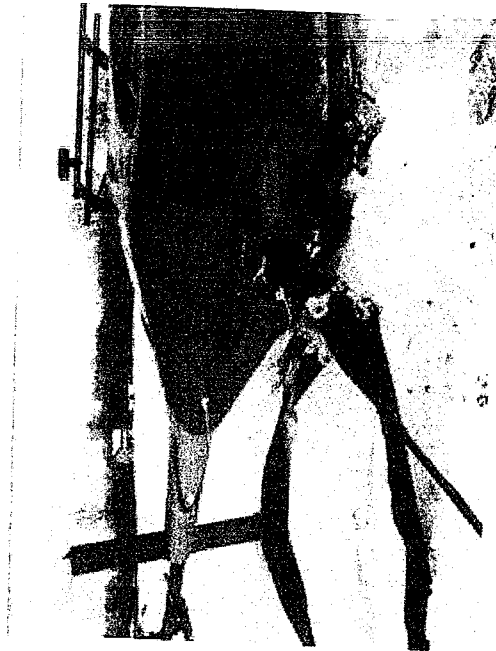
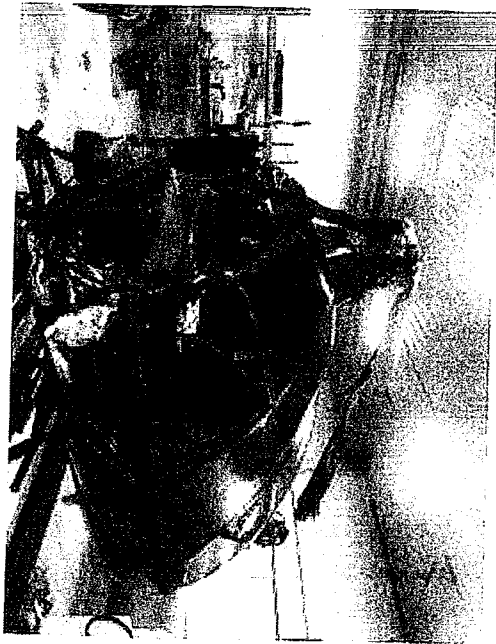
Description of Damage to Aircraft and Other Property (Use additional sheet if necessary)

pictures attached

NARRATIVE HISTORY OF FLIGHT (Please type or print in ink)

Describe what occurred in chronological order, including circumstances leading to and nature of accident/incident. Describe terrain and include wreckage distribution sketch if pertinent. Attach extra sheets if needed. State departure time and location, services obtained, and intended destination. Provide as much detail as possible.

Description attached



Accident report February 13, 2018

Helicopter 471RA

The helicopter was picked up from its annual and biannual flight review was conducted on January 17, 2018. I flew the helicopter from Ann Arbor to my home in Stockbridge Michigan. The helicopter sat in the hangar for roughly 2 weeks and we were inside the hangar around the helicopter several times each week. Somewhere around the first week of February we noticed that it was dripping some oil. I contacted Mike at Bijan air and told him about the issue. He came out to my house I think on the fifth or sixth of February. He checked the aircraft out and added a undisclosed amount of oil. He asked if we could take it outside and do a run-up.

The run-up consisted of a five-minute flight idle. Followed by a five minute full rotor speed. Everything checked out, all the gauges were in the green. The aircraft was not flown, shut down after the 10 minute runtime. I talked with Mike after words and he said that the seal may have gotten dry, but everything looked okay keep an eye on it. We put the helicopter back in the barn and there wasn't any apparent oil leak for the first couple days. Around the third day I noticed it dripping oil again. I called Mike and told him that it was leaking. I asked if it would be safe to fly and, he said, " yes just fill it up with oil and bring it down." On February 13 we decided to take it to Ann Arbor.

I am a follower of Jesus Christ and take my commitment to Christianity very seriously. That's why it's important that I mentioned this. Before we pulled the helicopter out Irwin and I prayed over the helicopter. In the past I would always thank Jesus after a safe helicopter trip. On this day I felt uneasy. My prayer was, " Lord if I'm not to fly this helicopter to Ann Arbor today please make it obvious " due to the feelings that I did have we were very careful to follow Mike's instructions and be very alert to anything out of the ordinary.

During the preflight check we added oil to fill line. Then we pulled the aircraft outside, hooked up the APU and started the aircraft. During the last start when Mike was present the turbine made a unusual sound for a brief period of time and Mike said that was okay. The same noise was heard again during startup for roughly the same brief period of time. The startup was normal and all the gauges read in their customary positions.

There were no oil leaks visible during the start up and run up. My assistant that disconnected the APU unit was reporting to me in the cockpit what he saw underneath. Mike instructed that we check for any leaks once it's running to make sure everything's okay. I told Erwin my assistant that I would hover for a minute so I could use full power and then we would check it out again to make sure it wasn't leaking. Once again we checked the aircraft and it didn't seem like it was leaking. But Irwin did mention he did see residue from where it was leaking.

I told Erwin that I would fly out over the field and come back to check it again. We took off heading southeast. I noticed when I started the aircraft the heater was on there seemed to be a bit of smoke in the cockpit. When we started it when Mike was out it smoked out the exhaust. I knew that bleed air came from heat of the turbine. I knew that oil had drip down onto the exhaust in the same spot both times. I turned the heater off and slid my little window open to

clear out the smoke. I didn't have any reason to suspect that we would not fly to Ann Arbor. Although I thought it would be important to do a few extra checks before we departed for Ann Arbor. We had a family friend that wanted to ride with me. I made the decision to load the passenger.

There wasn't any visible smoke in the cockpit. After hovering and checking the aircraft again I flew out over the field. When we just passed the house I detected smoke again. I was 20 to 30 feet in the air the next thing I knew we were laying sideways on the ground. I was initiating a turn to go back to the house to recheck the aircraft. It appeared as though I was still roughly the same distance above the ground as when I crossed over the pine trees. My ground speed was somewhere between 10 and 20 miles an hour. The field was snow-covered and roughly 30 acres. It was sunny, practically no wind. The descent to the ground seemed instantaneous. As did the aircraft yawing to the right.

After impact I tried to shut the aircraft down. The fuel shutoff valve had been bent over due to my knee contacting it. I was unable to pull it out. I tried to turn the turbine off with the twist grip and red button with no success. The passenger Carrie help me get out, and then she climbed out. We were concerned that it was going to catch on fire or blow up. Due to the fact that the turbine was running full speed with the aircraft laying on it's side. We walked back up to the house and the aircraft continued to run.

My belief is God answered my prayer and kept me from flying to Ann Arbor. The many subdivisions and buildings around Ann Arbor airport could have been struck if the helicopter had a mechanical failure and there wasn't sufficient area to set down. The resulting outcome of the accident could've involved innocent life's. Fortunately we were able to walk away with minor scrapes and bumps. There's no question in my mind there was some mechanical failure of some sort. Mike and Bijan Air have always done a great job. I see no fault on their behalf whatsoever. The field elevation probably goes up 8 to 10 feet after the trees. Traveling over a field that large with no visual cues does lead me to question the proximity to the ground.

My feelings still is that something happened and caused a 10 to 15 foot ground clearance to instantly disappear. Inside the aircraft it felt like the hand of God just pushed it to the ground. I've given nearly 500 people free rides and have had a lot of experience hovering and takeoffs and landings. I've tried my best to give every detail I could think of. I just praise Jesus for the hand of safety that was with us. I talked with Erwin and he said he saw smoke and oil coming out of the aircraft after I took off. He will be available on Tuesday when you come out if you like to talk with him.

After the aircraft had been released for removal I retrieved it with my Bobcat. I placed it back inside my hangar. A few hours later I checked on it. It was leaking fuel from three or four different locations. I took a pair of vise grips and bent the fuel shut off straight again. I pulled it with all my might and it wouldn't move. Then I took a pair of side cutters and cut the cable going to the fuel shutoff valve. I was able to shut the valve and hopefully reduce the fuel spillage. I placed three catch containers underneath the aircraft to collect dripping fuel.

RECOMMENDATION (How could this accident/incident have been prevented?)

Operator/Owner Safety Recommendation

NOT SURE, HAPPENED SO
Fast only 20 ft or less off the Ground

MECHANICAL MALFUNCTION/FAILURE (If more space is needed, continue on separate sheet)Was there Mechanical Malfunction/Failure? ☐ Yes ☐ No

(If yes, list the name of the part, manufacturer, part no., serial no., and describe the failure.)

not sure
There was a oil Leak.

Total Time/Cycles
On Part

Hours

Cycles

Time Since This Part
Inspected/Overhauled

Hours

FUEL & SERVICES INFORMATION

Fuel on Board at Last Takeoff

(Convert from pounds, as necessary)

40

Gallons

Fuel Type

☐ 80/87☐ 100 Low Lead☐ 100/130☐ 115/145☒ Jet A☐ Jet A-1☐ Jet B☐ JP8☐ Automotive☐ Other, specify _____

Other Services, if Any, Prior to Departure

EVACUATION OF AIRCRAFTWas an emergency evacuation of the aircraft performed? ☒ Yes ☐ No

Method of Exit - Describe how the occupants exited and how many occupants evacuated each location

Two occupants climbed out the pilots door.
helicopter was lying on its side.

OTHER AIRCRAFT - COLLISION (If air or ground collision occurred, complete this section for other aircraft)

Aircraft Registration Number

Manufacturer: _____

Model: _____

Damage to Other Aircraft

☐ Destroyed☐ Minor☐ Substantial☐ None

Registered Owner of Other Aircraft

Name: _____

City: _____

State: _____ ZIP: _____

Country: _____

Pilot of Other Aircraft

Name: _____

City: _____

State: _____ ZIP: _____

Country: _____

ADDITIONAL INFORMATION (Please type or print in ink)

Use this space if additional space is needed for any answers.

I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Date of this Report

02/23/2018
mm/dd/yyyy

Name of Pilot/Operator:

CHRISTOPHER ANDREW SALOW

Signature: _____

-- or --

☐ Check here to electronically sign this document

If a Person Other than Pilot/Operator is Filing Report

Name: _____

Title: _____

Signature: _____

-- or --

☐ Check here to electronically sign this document**FOR NTSB USE ONLY**

NTSB Accident/Incident No.

CEN18LA146

Reviewed by NTSB Regional Office

CENTRAL REGION

Name of Investigator

ANDREW TODD FOX

Date Report Received

22 FEB 2018