



# Aviation Investigation Final Report

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<b>Location:</b>	Kobuk, Alaska	<b>Accident Number:</b>	ANC18CA056
<b>Date &amp; Time:</b>	July 25, 2018, 10:45 Local	<b>Registration:</b>	N354LA
<b>Aircraft:</b>	Eurocopter AS 350 B3	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Dynamic rollover	<b>Injuries:</b>	1 Minor
<b>Flight Conducted Under:</b>	Part 135: Air taxi & commuter - Non-scheduled		

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## Analysis

The commercial pilot of the helicopter was transporting equipment in support of remote mining activities using a 100-foot long-line. During takeoff, and while preparing to lift the external sling load, he inadvertently allowed the helicopter to drift laterally to the right and the right skid struck the ground, resulting in a dynamic rollover. The helicopter continued to roll to the right, and the main rotor blades struck the ground.

The helicopter subsequently came to rest on its right side, sustaining substantial damage to the main rotor drive system, fuselage, and tail boom. The pilot sustained minor injuries, and reported that there were no preaccident mechanical failures or malfunctions with the helicopter that would have precluded normal operation.

## Probable Cause and Findings

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

The pilot's inadvertent dynamic rollover during takeoff.

## Findings

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<b>Personnel issues</b>	Aircraft control - Pilot
<b>Aircraft</b>	(general) - Not attained/maintained

## Factual Information

### History of Flight

<b>Takeoff</b>	Dynamic rollover (Defining event)
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### Pilot Information

<b>Certificate:</b>	Commercial; Flight instructor	<b>Age:</b>	47, Male
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Right
<b>Other Aircraft Rating(s):</b>	Helicopter	<b>Restraint Used:</b>	4-point
<b>Instrument Rating(s):</b>	Helicopter	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	Helicopter	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 2 With waivers/limitations	<b>Last FAA Medical Exam:</b>	March 9, 2018
<b>Occupational Pilot:</b>	Yes	<b>Last Flight Review or Equivalent:</b>	March 23, 2018
<b>Flight Time:</b>	5061 hours (Total, all aircraft), 225 hours (Total, this make and model), 4322 hours (Pilot In Command, all aircraft), 193 hours (Last 90 days, all aircraft), 117 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Eurocopter	<b>Registration:</b>	N354LA
<b>Model/Series:</b>	AS 350 B3	<b>Aircraft Category:</b>	Helicopter
<b>Year of Manufacture:</b>	2000	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	3285
<b>Landing Gear Type:</b>	High skid	<b>Seats:</b>	
<b>Date/Type of Last Inspection:</b>	July 13, 2018 Continuous airworthiness	<b>Certified Max Gross Wt.:</b>	
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Turbo shaft
<b>Airframe Total Time:</b>	6472.8 Hrs as of last inspection	<b>Engine Manufacturer:</b>	Safran
<b>ELT:</b>	C126 installed, not activated	<b>Engine Model/Series:</b>	Arriel
<b>Registered Owner:</b>	Roberts Aircraft Co	<b>Rated Power:</b>	847
<b>Operator:</b>	Trans Aero Helicopters	<b>Operating Certificate(s) Held:</b>	Rotorcraft external load (133), On-demand air taxi (135)

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>		<b>Distance from Accident Site:</b>	
<b>Observation Time:</b>		<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	15 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	175°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>		<b>Temperature/Dew Point:</b>	19°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Kobuk, AK	<b>Type of Flight Plan Filed:</b>	Company VFR
<b>Destination:</b>	Kobuk, AK	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>		<b>Type of Airspace:</b>	

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Minor	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>		<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 Minor	<b>Latitude, Longitude:</b>	66.935554,-156.77305(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Johnson, Clinton
<b>Additional Participating Persons:</b>	James Watson; Federal Aviation Administration (FAA) ; Fairbanks, AK
<b>Original Publish Date:</b>	May 27, 2021
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class 4</a>
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=97858">https://data.nts.gov/Docket?ProjectID=97858</a>

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