National Transportation Safety Board NTSB ID: LAX05LA172 Aircraft Registration Number: N6292						umber: N6292K				
FACTUAL REPORT	Occurrenc	e Date: 05/14	1/2005	Most Critical I	Most Critical Injury: Minor					
AVIATION Occurrence Type: Accident						Investigated By: NTSB				
Location/Time	•									
Nearest City/Place	State	Zip								
Geyserville	CA	95	6441	1550	PDT					
Airport Proximity: Off Airport/Airstrip Distance From Landing Facility:										
Aircraft Information Summary										
Aircraft Manufacturer			Model/Series	6			Type of Aircraft			
Republic			RC-3				Airplane			
Revenue Sightseeing Flight: No			Air I	Medical Transp	oort Flight: No					
Narrative										
 On May 14, 2005, about 1550 Pacific daylight time, a Republic RC-3, N6292K, experienced a loss of engine power and made a forced landing in a vineyard in Franz Valley near Geyserville, California. The pilot/owner operated the airplane under the provisions of 14 CFR Part 91. The airplane sustained substantial damage. The pilot and one passenger were not injured; a third passenger received minor injuries. Visual meteorological conditions prevailed for the local area flight that departed Charles M. Schulz/Sonoma County Airport (STS), Santa Rosa, California, about 1530. The flight was destined for Lake Berryessa Seaport Base (E20), Napa, California, and no flight plan had been filed. The National Transportation Safety Board investigator-in-charge (IIC) interviewed the pilot. The pilot reported that the first indication of an engine problem was the rise in oil temperature with a corresponding decrease in oil pressure. He decided to turn back for STS, made it over a ridge and had to make a forced landing. The pilot reported that about 7 miles east of the airplane was not climbing. He turned back for STS, but didn't think that he would be able to clear the noticed the oil temperature had risen 10 degrees (180 degrees to 190 degrees), and the airplane was not climbing. He turned back for STS, but didn't think that he would be able to clear the oil pressure (dropping down to 25 pounds). A couple of minutes later he heard a very loud noise from the engine compartment followed by a complete loss of engine power. The pilot identified a vineyard to make the forced emergency landing. He stated that after start-up they taxied to the run-up area. The run-up was normal and they took off towards the east. About 7 miles from the airplane the soft ground and the airplane to rest inverted. 										
he noted that the pilot was paying close attention to the engine gages. Up to that point the witness had not noticed anything wrong with the engine. He noted that the pilot was concerned with the rising oil temperature and initiated a turn back for the airport. The witness also noted a rise in oil temperature with a corresponding drop in oil pressure. At that point they both knew the engine was failing. He heard a loud bang, and the engine quit. Another witness in the rear passenger seat indicated that she heard "strange sounds - banging and clattering, etc." As the pilot turned back for the airport she reported that the engine noise increased and then the engine quit. According to the aircraft logbooks an annual inspection was completed on May 6, 2005. The airframe										
FACTUAL REPORT - AVIATION Page 1										

FACTUAL REPORT Occurrence Date: 05/14/2005 AVIATION Occurrence Type: Accident	National Transportation Safety Board	NTSB ID: LAX05LA172	
AVIATION Occurrence Type: Accident	FACTUAL REPORT	Occurrence Date: 05/14/2005	
	AVIATION ETYBON	Occurrence Type: Accident	

Narrative (Continued)

had a total time of 291.7 hours, and the engine had a total time since new of 296.2 hours.

TEST AND RESEARCH

A visual examination of the airframe revealed streaks of oil around the outside of the engine The cowling was removed revealing oil in the engine compartment, and a hole in the top of cowling. the engine case. A piece of material identified as a portion of separated engine case lying in the A divet was noted on the interior portion of the separated engine case. The engine compartment. IIC noted that the number 1 connecting rod (adjacent to the front main bearing journal) had Rod bearing material along with a bolt end and nut assembly was at the bottom of the separated. The connecting rod cap was lying on top of the engine case. The connecting rod cap engine case. exhibited bluing and deformation. The rod journal exhibited bronze/orange coloration as well as some deformation. Oil was drained from the oil sump, which contained metal debris. The top spark plugs were removed. According to the Champion Aviation Check-A-Plug chart AV-27, with the exception of the spark plugs for the numbers 1 and 3 cylinders; coloration was consistent with normal operation. The two sets of spark plugs for the numbers 1 and 3 cylinders were oil sooted with foreign debris around the electrode.

National Transportation Safety Board	BID: LAX05LA172									
FACTUAL REPORT	rrence Date: 05/14/2005									
AVIATION										
Avia Information Occurrence Type: Accident Landing Facility/Approach Information										
Airport Name Airport ID: Airport Elevation Runway Used Runway Leng									n Rur	way Width
				Ft. MSL		-				
Runway Surface Type:										
Runway Surface Condition:										
Approach/Arrival Flown: NONE										
VFR Approach/Landing: Forced Landing										
Aircraft Information										
Aircraft Manufacturer			odel/S C-3	eries				Serial N	Number	
Republic			C-3					505		
Airworthiness Certificate(s): Normal										
Landing Gear Type: Retractable - Amphibian;	Tailwheel									
Amateur Built Acft? No Number of Seats: 4 Certified Max Gross Wt. 3150 LBS Number of Engines: 1										
Engine Type: Reciprocating	-	Engine Manufacturer: Model/Series Franklin GA8-215-E								
- Aircraft Inspection Information										
Type of Last Inspection Date of Last Inspection Time Since Last Inspection Airframe Total										
Annual		05/200	05				4 Ho	ours		295.7 Hours
- Emergency Locator Transmitter (ELT) Informatio	n									
ELT Installed?/Type Yes /		ELT Op	ELT Operated? No ELT Aided in Locating Accident Site? N						No	
Owner/Operator Information										
Registered Aircraft Owner		Stre	eet Ad	dress						
Arthur W. McDonnell		City							State	Zip Code
									95403	
Operator of Aircraft	Operator of Aircraft Street Address									
Arthur W. McDonnell	City							State	Zip Code	
Operator Does Business As:		Santa Rosa CA 95403 Operator Designator Code: Vertical Action of the second sec							95403	
- Type of U.S. Certificate(s) Held: None										
Air Carrier Operating Certificate(s):										
Operating Certificate:				Operator Certific	cate:					
Regulation Flight Conducted Under: Part 91: Get	neral Avia	tion								
Type of Flight Operation Conducted: Personal										
FACTUAL REPORT - AVIATION Page 2										

National Transportation Safety Board NTSB ID: LAX05LA172 FACTUAL REPORT Occurrence Date: 05/14/2005 AVIATION Occurrence Type: Accident										
AVIA IIIII Occurrence Type: Accident										
er y BOX										
First Pilot Information										
Name City State Date of Birth Ag	Age									
On File On File On File 75	5									
Sex: M Seat Occupied: Left Occupational Pilot? Certificate Number: On File										
Certificate(s): Commercial										
Airplane Rating(s): Multi-engine Land; Multi-engine Sea; Single-engine Land; Single-engine Sea										
Rotorcraft/Glider/LTA: Helicopter										
Instrument Rating(s): Airplane										
Instructor Rating(s): None										
Current Biennial Flight Review? 03/2005										
Medical Cert.: Class 2 Medical Cert. Status: Date of Last Medical Exam: 12/2004										
- Flight Time Matrix All A/C This Make Airplane Airplane Night Instrument Rotorcraft Glider Lighte	ghter									
and Model Single Engine Mult-Engine Actual Simulated Than A	an Air									
Total Time 10000 28 4000 6000 500 300 Pilot In Command(PIC) 28 4000 4000 200										
Instructor 28 4000 4000 200 Image: Comparison of the state of the										
Instruction Received										
Last 90 Days 20 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
Last 30 Days 6 6 6										
Last 24 Hours 1 1										
Seatbelt Used? Yes Shoulder Harness Used? N/A Toxicology Performed? No Second Pilot? Yes	Toxicology Performed? No Second Pilot? Yes									
Flight Plan/Itinerary										
Type of Flight Plan Filed: None										
Departure Point State Airport Identifier Departure Time Time Zone										
Santa Rosa CA STS 1530 PDT										
Destination State Airport Identifier										
Lake Berryessa CA E20										
Type of Clearance: None										
Type of Airspace:										
Weather Information										
Source of Wx Information:										
Unknown										

Nationa	NTSB ID:	NTSB ID: LAX05LA172										
FACTUAL REPORT			Occurren	Occurrence Date: 05/14/2005								
		Occurrence Type: Accident										
Weather	AVEATION Information		J									
WOF ID	Observation Time	Time Zone	WOF Elevat	ion	WOF D	stance Fr	dent Site	nt Site Direction From Accident Site				
STS	1553	PDT	125 Ft	. MSL				7 NM			50 Deg	. Mag.
Sky/Lowest Cloud Condition: Few 4500 Ft. AGL Condition of Light: Day												
Lowest Ce	iling: None		Ft.	AGL	Visib	lity:	10	SM Altimeter: 29.95			"Hg	
Temperatu	ıre: 23 °C	Dew Point:	17 °C	Weath	ner Condi	tions at A	ccident	Site: Visual	Cond	litions		
Wind Direc	ction: 110	Wind Spee	ed: 11		Wind	d Gusts:						
Visibility (F	RVR): Fi	. Visibility (I	૨ νν)	SM								
	l/or Obscuration: oscuration; No Precip	itation										
Accident	Information											
Aircraft Da	mage: Substantial		Aircraft Fir	e: None				Aircraft Exp	olosio	n None		
			I									
- Injury Su	mmary Matrix	Fatal	Serious Mino	or	None	TOTAL						
First Pi	lot				1		1					
Second	d Pilot											
Studen	t Pilot											
Flight I	nstructor											
Check	Pilot											
Flight E	Engineer											
Cabin /	Attendants											
Other (Crew											
Passer	ngers			1	1		2					
- TOTAL A	ABOARD -			1	2		3					
Other C	Ground											
- GRANE	D TOTAL -			1	2		3					
FACTUAL REPORT - AVIATION Page 4												

	1	
National Transportation Safety Board FACTUAL REPORT	NTSB ID: LAX05LA172	
FACTUAL REPORT	Occurrence Date: 05/14/2005	
AVIATION ETYBON	Occurrence Type: Accident	
Administrative Information		
Investigator-In-Charge (IIC)		
Tealeye C. Cornejo		
Additional Persons Participating in This Accident/In	cident Investigation:	
Tim Jarrard Federal Aviation Administration Oakland, CA		
	FACTUAL REPORT - AVIATION	Page 5