



OIL REPORT

LAB NUMBER: K88015

UNIT ID: N134JB

REPORT DATE: 1/24/2019

CLIENT ID: 137109

CODE: 20/32

PAYMENT: CC: Visa

UNIT

MAKE/MODEL: Lycoming O-320
FUEL TYPE: Gasoline (Leaded)
ADDITIONAL INFO: 1993 Vans RV-6, 160hp

OIL TYPE & GRADE: Aeroshell 15W/50
OIL USE INTERVAL: 20 Hours

CLIENT

BROOKS MERSHON
3455 17TH ST
BOULDER, CO 80302

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COMMENTS

BROOKS: The slip listed an O-320, but we have specific averages for most Lycoming engines. Feel free to provide the details and we can update the report as needed. Universal averages show typical wear for oil run 40 hours. Iron, copper, and nickel are a little high, and lead from blow-by is also elevated, at least for a 20-hour interval. Iron is from steel parts, or maybe corrosion if N134JB has been inactive. Copper is probably from a harmless reaction with the 15W/50 oil, rather than poor brass/bronze wear. If you're not having trouble, follow-up in 20 hours for another look.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	20	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	1,450							
	Sample Date	1/1/2019							
	Make Up Oil Added	1 qt							
	ALUMINUM	10		10					8
	CHROMIUM	9		9					8
	IRON	52		52					27
	COPPER	15		15					7
	LEAD	3941		3941					2847
	TIN	3		3					1
	MOLYBDENUM	2		2					0
	NICKEL	5		5					2
	MANGANESE	1		1					0
	SILVER	0		0					0
	TITANIUM	1		1					0
	POTASSIUM	1		1					0
	BORON	8		8					0
	SILICON	9		9					6
	SODIUM	5		5					1
	CALCIUM	48		48					9
	MAGNESIUM	1		1					1
	PHOSPHORUS	1318		1318					660
	ZINC	4		4					6
	BARIUM	0		0					0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	91.3	82-105					
	cSt Viscosity @ 100°C	18.29	16.0-21.8					
	Flashpoint in °F	450	>440					
	Fuel %	<0.5	<1.0					
	Antifreeze %	-						
	Water %	0.0	0.0					
	Insolubles %	0.4	<0.6					
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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