OIL REPORT

LAB NUMBER: L11349 **UNIT ID:** N134JB
REPORT DATE: 4/23/2019 **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: 30 Hours

CLIENT

BROOKS MERSHON
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COMMENTS

BROOKS: The hours on the engine went down, so let us know if 1350 isn't right. This interval was a little longer than last time, but wear looks better here. On the surface, most metals have gone down just a few ppm, but if we look at them from a wear rate (ppm/hour) perspective, wear has improved quite a bit. If aluminum and iron are related to corrosion, they may improve even more with increased flying time. As long as the engine seems to be running well and the oil filter pleats are free of metal, just check back in ~30 hours again for another look at metals.

ELEMENTS IN PARTS PER MILLION

	MI/HR on Oil	30	UNIT / LOCATION AVERAGES	20					UNIVERSAL AVERAGES
	MI/HR on Unit	1,350		1,450					
	Sample Date	3/30/2019		1/1/2019					
	Make Up Oil Added	1 qt		1 qt					
	ALUMINUM	9	10	10					8
	CHROMIUM	4	7	9					8
	IRON	**43**	48	**52**					27
	COPPER	11	13	**15**					7
	LEAD	3187	3564	**3941**					2860
	TIN	1	2	3					1
	MOLYBDENUM	2	2	2					0
	NICKEL	4	5	**5**					2
	MANGANESE	0	1	1					0
	SILVER	0	0	0					0
	TITANIUM	0	1	1					0
	POTASSIUM	1	1	1					0
	BORON	2	5	8					0
	SILICON	9	9	9					6
	SODIUM	3	4	5					1
	CALCIUM	67	58	48					9
	MAGNESIUM	1	1	1					1
	PHOSPHORUS	1275	1297	1318					662
	ZINC	3	4	4					6
	BARIUM	0	0	0					0

PROPERTIES

			Values Should Be*					
	SUS Viscosity @ 210°F	91.4	82-105	91.3				
	cSt Viscosity @ 100°C	18.31	16.0-21.8	18.29				
	Flashpoint in °F	450	>440	450				
	Fuel %	<0.5	<1.0	<0.5				
	Antifreeze %	-		-				
	Water %	0.0	0.0	0.0				
	Insolubles %	0.4	<0.6	0.4				
	TBN							
	TAN							
	ISO Code							

*** THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE**

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