



OIL REPORT

LAB NUMBER: J30529 UNIT ID: N377LM
 REPORT DATE: 5/12/2017 CLIENT ID: 34208
 CODE: 12/133 PAYMENT: CC: Visa (Bulk)

UNIT	MAKE/MODEL: Lycoming O-320-D1A	OIL TYPE & GRADE: Aeroshell W80 Plus (AD)
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 31 Hours
	ADDITIONAL INFO: Van's RV4, Eng S/N: L-19228-39A, Nitrided Steel	

CLIENT	TOMMY TURNER	PHONE: (770) 639-6900
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COMMENTS
 TOMMY: After going 31.2 hours on this oil, we're pleased to see wear metals are still nice and low. Lead went up a little, which is typical after using a longer interval since 100LL blow-by accumulates with use. There's no sign of poor air or oil filtration, and there wasn't any measurable fuel or water to point out in this sample of W80 Plus. Just keep up the good work with this engine and check back to keep tabs on things. Excellent report, N377LM!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	31	UNIT / LOCATION AVERAGES	20	23	24	24	10	UNIVERSAL AVERAGES
	MI/HR on Unit	520		489	469	410	389	364	
	Sample Date	4/17/2017		10/27/2016	4/12/2016	4/1/2015	11/2/2014	4/1/2014	
	Make Up Oil Added	1 qt		0 qts	0 qts	0 qts	0 qts	0 qts	
ALUMINUM	2	3	2	3	2	2	1	5	
CHROMIUM	1	2	1	2	1	1	1	4	
IRON	10	13	11	22	8	10	5	23	
COPPER	3	7	3	4	3	4	2	7	
LEAD	1726	2055	1516	2242	1511	1581	1200	2601	
TIN	0	1	0	2	2	2	0	1	
MOLYBDENUM	0	0	0	0	0	0	0	0	
NICKEL	0	1	0	0	1	0	0	1	
MANGANESE	0	0	0	0	0	0	0	0	
SILVER	0	0	0	0	0	0	0	0	
TITANIUM	0	0	0	0	0	0	0	0	
POTASSIUM	0	1	0	0	0	2	2	1	
BORON	0	1	0	4	0	1	1	1	
SILICON	5	7	5	7	6	8	7	7	
SODIUM	2	1	0	1	0	1	0	1	
CALCIUM	1	2	1	1	1	1	3	11	
MAGNESIUM	1	1	0	0	0	1	0	1	
PHOSPHORUS	1024	1266	1300	1326	1326	1371	1448	685	
ZINC	6	9	5	12	9	8	8	6	
BARIUM	0	0	0	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	79.0	70-85	80.8	75.6	84.2	83.7	71.3
	cSt Viscosity @ 100°C	15.26	13.0-17.0	15.72	14.42	16.57	16.45	13.30
	Flashpoint in °F	455	>440	470	455	475	485	500
	Fuel %	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
	Antifreeze %	-		-	-	-	-	-
	Water %	0.0	<0.1	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.2	<0.6	0.3	0.4	0.2	0.1	0.2
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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