



OIL REPORT

LAB NUMBER:
 REPORT DATE: 11/12/2018
 CODE: 20/32

UNIT ID:
 PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Lycoming IO-540-C4B5	OIL TYPE & GRADE: Phillips XC (A/C) 20W/50
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 20 Hours
	ADDITIONAL INFO: Vans RV-8, Screen, Steel & Chrome Cyls	

CLIENT	
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COMMENTS Universal averages provide a baseline for how the typical IO-540-C4B5 engine looks in testing, based on oil run about 35 hours. A few metals are high in comparison, and there's some extra silicon too. That's probably from the normal break-in process, and it usually takes about 100 hours for break-in material to fully wash out of an engine. Chrome may always read high because of the chrome cylinders that are in use. Trends will tell what's normal for this engine, and we will stop marking it once chrome stabilizes. Just check back – you should see some nice progress!

ELEMENTS IN PARTS PER MILLION			UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Oil							
	MI/HR on Oil	20						
	MI/HR on Unit	35						
	Sample Date	11/5/2018						
	Make Up Oil Added	1 qt						
	ALUMINUM	6						7
	CHROMIUM	19						7
	IRON	31						35
	COPPER	14						7
	LEAD	1630						3683
	TIN	3						1
	MOLYBDENUM	0						0
	NICKEL	7						3
	MANGANESE	1						0
	SILVER	0						0
	TITANIUM	0						0
	POTASSIUM	1						1
	BORON	1						1
	SILICON	18						6
	SODIUM	2						1
	CALCIUM	7						17
	MAGNESIUM	13						9
	PHOSPHORUS	19						631
	ZINC	8						7
	BARIUM	0						0

Values Should Be*

PROPERTIES						
	Actual Value	Target Range				
SUS Viscosity @ 210°	96.0	86-105				
cSt Viscosity @ 100°C	19.41	17.0-21.8				
Flashpoint in °F	455	>430				
Fuel %	<0.5	<1.0				
Antifreeze %	-					
Water %	0.0	0.0				
Insolubles %	0.2	<0.6				
TBN						
TAN						
ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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