



OIL REPORT

LAB NUMBER: P03013
 REPORT DATE: 11/2/2021
 CODE: 20/68

UNIT ID: N736YB
 CLIENT ID: 88231
 PAYMENT: CC: MC

UNIT	MAKE/MODEL: Continental IO-360-KB2B	OIL TYPE & GRADE: Aeroshell 15W/50
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 51 Hours
	ADDITIONAL INFO: Cessna R172K, Hawk XP11, S/N 288684-R, R1722884	

CLIENT	JAMES CARLSON	PHONE: (978) 873-0507
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COMMENTS
 JAMES: Metals increased again this time, but that's to be expected after over twice the oil interval. On a per-hour basis, these levels are actually pretty low compared to past reports, so internal parts appear to be wearing well. Nickel is still a bit elevated at 7 ppm, but if you're not noticing anything concerning like bad bag checks or erratic temps, then we'll just see how it trends. Check back to monitor.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	51	UNIT / LOCATION AVERAGES	21	27	17	26	30	UNIVERSAL AVERAGES
	MI/HR on Unit	1,056		1,026	954	923	904	880	
	Sample Date	9/16/2021		3/23/2021	9/22/2020	3/12/2020	9/24/2019	9/17/2018	
	Make Up Oil Added	1 qt		1 qt	1 qt	1 qt	1 qt	1 qt	
ALUMINUM	10	6	6	5	4	9	12	7	
CHROMIUM	5	4	4	3	3	5	6	5	
IRON	52	39	40	35	27	53	50	44	
COPPER	3	3	3	3	3	3	5	5	
LEAD	4471	3791	3189	2977	2764	3735	4170	3254	
TIN	0	0	1	0	0	1	1	1	
MOLYBDENUM	2	2	2	2	1	3	2	2	
NICKEL	7	4	7	3	2	4	7	3	
MANGANESE	1	1	1	1	1	1	1	1	
SILVER	0	0	0	0	0	0	0	0	
TITANIUM	0	0	0	0	0	0	0	0	
POTASSIUM	0	0	0	0	0	0	1	1	
BORON	0	1	1	0	0	1	1	1	
SILICON	5	6	5	7	5	9	18	10	
SODIUM	1	1	1	2	1	0	1	1	
CALCIUM	1	2	3	2	1	2	4	18	
MAGNESIUM	0	0	0	0	0	0	0	1	
PHOSPHORUS	1118	1169	1285	1218	1237	1160	1145	1024	
ZINC	3	5	7	5	5	5	6	7	
BARIUM	0	0	0	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	88.9	82-105	87.2	84.1	86.9	90.0	89.5
	cSt Viscosity @ 100°C	17.72	16.0-21.8	17.31	16.55	17.22	17.98	17.86
	Flashpoint in °F	470	>440	475	450	455	470	450
	Fuel %	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
	Antifreeze %	-	-	-	-	-	-	-
	Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.2	<0.6	0.3	0.2	0.4	0.3	0.3
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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