



OIL REPORT

LAB NUMBER: N28246
 REPORT DATE: 4/7/2021
 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: 21 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: There's a little more wear metal in this sample, which is unusual after a shorter run, but on a ppm/hour basis, only nickel stands out as something to watch. It comes from the exhaust valve guides, so you might watch for symptoms relating to that area, like bad mag checks, morning sickness, and high or erratic temps. If all is well, though, this could be some normal variation, perhaps from a mild operational change, temporarily high temps, or something else that will improve without requiring corrective action. Try a similar run for apples to apples comparison.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	21	UNIT / LOCATION AVERAGES	27	17	26	30	20	UNIVERSAL AVERAGES
	MI/HR on Unit	1,026		954	923	904	880	801	
	Sample Date	3/23/2021		9/22/2020	3/12/2020	9/24/2019	9/17/2018	3/30/2017	
	Make Up Oil Added	1 qt		1 qt	1 qt	1 qt	1 qt	1 qt	
ALUMINUM	6	6	5	4	9	12	4	6	
CHROMIUM	4	3	3	3	5	6	3	5	
IRON	40	37	35	27	53	50	29	43	
COPPER	3	3	3	3	3	5	3	5	
LEAD	3189	3716	2977	2764	3735	4170	3043	3159	
TIN	1	0	0	0	1	1	0	1	
MOLYBDENUM	2	2	2	1	3	2	2	3	
NICKEL	7	4	3	2	4	7	3	3	
MANGANESE	1	1	1	1	1	1	0	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	1	0	1	
BORON	1	1	0	0	1	1	1	1	
SILICON	5	7	7	5	9	18	4	11	
SODIUM	1	1	2	1	0	1	1	1	
CALCIUM	3	2	2	1	2	4	1	19	
MAGNESIUM	0	0	0	0	0	0	1	1	
PHOSPHORUS	1285	1174	1218	1237	1160	1145	1259	1016	
ZINC	7	5	5	5	5	6	5	7	
BARIUM	0	0	0	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	87.2	82-105	84.1	86.9	90.0	89.5	88.0
	cSt Viscosity @ 100°C	17.31	16.0-21.8	16.55	17.22	17.98	17.86	17.50
	Flashpoint in °F	475	>440	450	455	470	450	495
	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 %	0.3	<0.6	0.2	0.4	0.3	0.3	0.2
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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