



# OIL REPORT

LAB NUMBER: L65679      UNIT ID: N736YB  
 REPORT DATE: 10/14/2019      CLIENT ID: 88231  
 CODE: 20/32      PAYMENT: CC: MC

<b>UNIT</b>	MAKE/MODEL: Continental IO-360-KB2B	OIL TYPE & GRADE: Aeroshell 15W/50
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 26 Hours
	ADDITIONAL INFO: Cessna R172K, Hawk XP11, S/N 288684-R, R1722884	

<b>CLIENT</b>	JAMES CARLSON	PHONE: (978) 873-0507
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**COMMENTS** JAMES: After reading a little higher last time, most of the wear metals went back down. The exception is iron, from steel parts, which has been steadily on the rise. The 53 ppm in this sample is still in the average range, so it doesn't look like an issue with steel parts just yet, but the trend is worth monitoring. All else looks good. No contamination from excess fuel or water was found, and the air and oil filters did a good job of limiting abrasive dirt (silicon) and oxidized solids (insolubles). Just check back on iron next oil change.

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	26	<b>UNIT / LOCATION AVERAGES</b>	30	20	21	26	52	<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit	904		880	801	783	763	739	
	Sample Date	9/24/2019		9/17/2018	3/30/2017	9/5/2016	5/13/2016	9/8/2015	
	Make Up Oil Added	1 qt		1 qt	1 qt	1 qt	1 qt	1 qt	
ALUMINUM	9	6	12	4	2	4	6	6	
CHROMIUM	5	4	6	3	1	3	3	5	
IRON	53	39	50	29	17	38	45	40	
COPPER	3	3	5	3	2	2	3	5	
LEAD	3735	4085	4170	3043	2991	4096	6477	3242	
TIN	1	1	1	0	0	0	1	2	
MOLYBDENUM	3	2	2	2	1	2	2	3	
NICKEL	4	4	7	3	1	3	3	2	
MANGANESE	1	1	1	0	0	1	1	1	
SILVER	0	0	0	0	0	0	0	0	
TITANIUM	0	0	0	0	0	0	0	0	
POTASSIUM	0	1	1	0	2	0	1	1	
BORON	1	1	1	1	0	3	1	1	
SILICON	9	7	18	4	4	4	3	12	
SODIUM	0	1	1	1	2	2	2	1	
CALCIUM	2	2	4	1	0	1	2	18	
MAGNESIUM	0	1	0	1	2	1	0	2	
PHOSPHORUS	1160	1138	1145	1259	1093	1157	1013	1020	
ZINC	5	5	6	5	3	6	5	7	
BARIUM	0	0	0	0	0	0	0	0	

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	90.0	82-105	89.5	88.0	85.1	86.7	94.3
	cSt Viscosity @ 100°C	17.98	16.0-21.8	17.86	17.50	16.78	17.17	19.00
	Flashpoint in °F	470	>440	450	495	470	430	445
	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	0.3	0.2	0.2	0.3	0.3
	TBN							
	TAN							
	ISO Code							

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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