



# OIL REPORT

LAB NUMBER: H06818

UNIT ID: N736YB

REPORT DATE: 10/7/2015

CLIENT ID: 88231

CODE: 20/32

PAYMENT: CC: MC

<b>UNIT</b>	MAKE/MODEL: Continental IO-360-KB2	OIL TYPE & GRADE: Aeroshell 15W/50
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 52 Hours
	ADDITIONAL INFO: Cessna R172K, Hawk S/N 288684	

<b>CLIENT</b>	JAMES CARLSON	PHONE: (978) 873-0507
	25 ESSEX STREET	FAX:
	NORTH ANDOVER, MA 01845-1345	ALT PHONE:
		EMAIL: carlsonj@workingcode.com

**COMMENTS** JAMES: Universal averages for this type of Continental engine show typical wear levels after about 30 hours of oil use. Wear metals line up pretty well, so we're not seeing anything problematic as far as wear metals are concerned. There was a little more lead than we might expect to find after 52.4 hours of oil use. It shows more 100LL blow-by, but that could be influenced by higher power settings or flying at higher altitudes. It may even prove to be normal for this engine, so as long as compressions are fine, let's just see how trends develop. Overall, this is a pretty good start!

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	52	<b>UNIT / LOCATION AVERAGES</b>					<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit	739						
	Sample Date	9/8/2015						
	Make Up Oil Added	1 qt						
ALUMINUM	6	6					7	
CHROMIUM	3	3					8	
IRON	45	45					36	
COPPER	3	3					4	
LEAD	6477	6477					2902	
TIN	1	1					1	
MOLYBDENUM	2	2					1	
NICKEL	3	3					3	
MANGANESE	1	1					0	
SILVER	0	0					0	
TITANIUM	0	0					0	
POTASSIUM	1	1					1	
BORON	1	1					0	
SILICON	3	3					15	
SODIUM	2	2					1	
CALCIUM	2	2					38	
MAGNESIUM	0	0					1	
PHOSPHORUS	1013	1013					849	
ZINC	5	5					7	
BARIUM	0	0					0	

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	94.3	82-105				
	cSt Viscosity @ 100°C	19.00	16.0-21.8				
	Flashpoint in °F	445	>440				
	Fuel %	<0.5	<1.0				
	Antifreeze %	-					
	Water %	0.0	<0.1				
	Insolubles %	0.3	<0.6				
	TBN						
	TAN						
	ISO Code						

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com