



OIL REPORT

LAB NUMBER:
 REPORT DATE: 4/5/2019
 CODE: 63/32

UNIT ID:
 CLIENT ID:
 PAYMENT: CC: MC

UNIT	MAKE/MODEL: Continental IO-520-M	OIL TYPE & GRADE: Aeroshell 15W/50
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 12 Hours
	ADDITIONAL INFO:	

CLIENT	
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COMMENTS There is a little more iron and silicon on this side, but otherwise these twins look a lot alike. Aluminum and iron could be from corrosion, but silicon could also be having an influence on wear if it's dirt. Check the air filter as a precaution. Note calcium, phosphorous, and zinc, which aren't normally found in ashless aircraft oils. If non-AD oil has been added it could cause deposits and combustion issues. Ensure the proper oil is in use. If the engine runs well, the oil filter is clean, and compressions are good, try a few short intervals to flush and monitor.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	12	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	665						
	Sample Date	3/16/2019						
	Make Up Oil Added	0 qts						
	ALUMINUM	27	35					8
	CHROMIUM	22	23					8
	IRON	99	77					37
	COPPER	13	13					4
	LEAD	4034	4107					4875
	TIN	5	4					1
	MOLYBDENUM	4	2					4
	NICKEL	6	5					5
	MANGANESE	1	1					1
	SILVER	0	1					0
	TITANIUM	0	0					0
	POTASSIUM	1	1					1
	BORON	0	0					1
	SILICON	30	19					6
	SODIUM	2	3					1
	CALCIUM	525	535					25
	MAGNESIUM	3	3					1
	PHOSPHORUS	1750	1778					408
	ZINC	702	714					4
	BARIUM	0	0					0

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°	92.5	82-105					
	cSt Viscosity @ 100°C	18.58	16.0-21.8					
	Flashpoint in °F	475	>440					
	Fuel %	<0.5	<1.0					
	Antifreeze %	-						
	Water %	0.0	0.0					
	Insolubles %	0.3	<0.6					
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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