



OIL REPORT

LAB NUMBER:
 REPORT DATE: 4/12/2019
 CODE: 80/32

UNIT ID:
 CLIENT ID:
 PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Continental IO-550	OIL TYPE & GRADE: Aeroshell W100 Plus (AD)
	FUEL TYPE:	OIL USE INTERVAL: 50 Hours
	ADDITIONAL INFO: Beechcraft	

CLIENT	
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COMMENTS It's certainly a relief finding less metal this time around. To be sure, we're still looking at enough cylinder-area wear (aluminum, chrome, iron) to monitor closely, but if things keep improving then maybe this is slow moving wear-in washing out instead of a problem. We do suggest having a look at air filtration (e.g. filter, intake plumbing) in case some of the lingering silicon is abrasive and not just sealers or lubes washing out. Oil filtration looks fine. Fuel is present at a trace, though that's not a factor in the wear. That's likely from priming or taking the sample cold. If the engine runs well and temps stay in the green, just check back to monitor trends.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	50	UNIT / LOCATION AVERAGES	55	55	UNIVERSAL AVERAGES
	MI/HR on Unit	270		182	1,415	
	Sample Date	3/29/2019		3/1/2018	6/3/2014	
	Make Up Oil Added	3.5 qts		3 qts		
	ALUMINUM	63	63	81	47	13
	CHROMIUM	22	22	39	17	8
	IRON	154	154	187	152	59
	COPPER	11	11	10	10	8
	LEAD	6252	6252	6122	7469	4968
	TIN	3	3	2	5	2
	MOLYBDENUM	26	26	37	9	5
	NICKEL	17	17	16	26	19
	MANGANESE	2	2	2	2	1
	SILVER	0	0	0	0	0
	TITANIUM	0	0	0	1	0
	POTASSIUM	1	1	0	3	1
	BORON	0	0	1	1	1
	SILICON	37	37	39	13	12
	SODIUM	1	1	2	1	1
	CALCIUM	5	5	12	6	2
	MAGNESIUM	2	2	1	2	2
	PHOSPHORUS	368	368	332	114	466
	ZINC	11	11	17	3	5
	BARIUM	0	0	0	0	0

Values Should Be*

PROPERTIES	93.0	86-105	94.7	88.6
SUS Viscosity @ 210°	93.0	86-105	94.7	88.6
cSt Viscosity @ 100°C	18.71	17.0-21.8	19.10	17.65
Flashpoint in °F	455	>460	450	485
Fuel %	TR	<1.0	0.5	<0.5
Antifreeze %	-	-	-	-
Water %	0.0	0.0	0.0	0.0
Insolubles %	0.4	<0.6	0.5	0.4
TBN				
TAN				
ISO Code				

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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