



OIL REPORT

LAB NUMBER: L12146
 REPORT DATE: 4/24/2019
 CODE: 20/32

UNIT ID: N779LB
 CLIENT ID: 63582
 PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Continental IO-550-N47	OIL TYPE & GRADE: Aeroshell W100 Plus (AD)
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 20 Hours
	ADDITIONAL INFO: Cirrus SR22, S/N 1032315, 1032305	

CLIENT	CHUCK	PHONE: (808) 276-0632
	CENTURION AIR MAINTENANCE INC	FAX:
	3950 KALAI WAA ST	ALT PHONE:
	APT J-201	EMAIL: cguyton65@gmail.com, guytonchuko@aol.com
	KIHEI, HI 96753	

COMMENTS CHUCK: Wear metals look good in this sample so it looks like the recently installed cylinder settled in nicely. Lead is still a bit high on a per-hour basis, though. It shows more 100LL blow-by than we'd expect after 20 hours, but there's no sign of poor piston ring or exhaust valve guide wear so we aren't ready to call any issues. As long as compressions were fine at the last annual, we think lead is just something to watch. It could be the result of higher power settings or flying at higher altitudes. So long as you don't suspect any issues, we're comfortable calling this a good report.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	20	UNIT / LOCATION AVERAGES	31	27	22	18	24	UNIVERSAL AVERAGES
	MI/HR on Unit	1,961		1,854	1,824	1,707	1,568	1,424	
	Sample Date	4/4/2019		2/4/2019	1/22/2019	12/3/2018	9/10/2018	7/2/2018	
	Make Up Oil Added	4 qts		4 qts	5 qts	3 qts	3 qts	5 qts	
ALUMINUM	1	2	4	2	2	2	2	2	6
CHROMIUM	4	6	9	4	4	4	2	3	10
IRON	19	21	37	21	17	14	14	14	48
COPPER	2	2	7	2	2	2	2	1	6
LEAD	6879	7302	9069	9142	7604	5406	6595	7037	
TIN	0	1	0	0	2	0	1	1	1
MOLYBDENUM	2	3	4	2	2	1	1	4	
NICKEL	2	2	6	2	2	2	2	13	
MANGANESE	0	0	1	1	1	0	0	1	
SILVER	0	0	0	0	0	0	0	0	
TITANIUM	0	0	0	0	0	0	0	0	
POTASSIUM	0	1	0	1	0	0	0	1	
BORON	0	1	0	1	0	0	0	1	
SILICON	4	5	11	5	4	4	5	5	
SODIUM	0	1	1	1	1	1	1	1	
CALCIUM	2	0	1	1	1	1	1	16	
MAGNESIUM	1	0	1	0	0	0	0	1	
PHOSPHORUS	1306	1130	1334	1345	1310	1208	1176	582	
ZINC	2	2	2	2	2	2	1	3	
BARIUM	0	0	0	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	87.2	86-105	91.5	87.8	91.0	91.6	92.5
	cSt Viscosity @ 100°C	17.29	17.0-21.8	18.34	17.45	18.23	18.37	18.58
	Flashpoint in °F	495	>460	480	475	475	475	455
	Fuel %	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	TR
	Antifreeze %	-		-	-	-	-	-
	Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.3	<0.6	0.3	0.4	0.3	0.5	0.4
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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