



OIL REPORT

LAB NUMBER: S065954
 REPORT DATE: 6/5/2024
 CODE: 20/88

UNIT ID: N647MD
 CLIENT ID: 167860
 PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Continental IO-360-ES	OIL TYPE & GRADE: Phillips XC (A/C) 20W/50
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 48 Hours
	ADDITIONAL INFO: Cirrus SR22, S/N: 360319	

CLIENT	FIXED WING AVIATION	PHONE: (863) 606-5757
	3760 AIRFIELD DRIVE WEST	FAX:
	LAKELAND, FL 33811	ALT PHONE: (863) 532-9074
		EMAIL: customercare@fixedwingaviation.com

COMMENTS FIXED WING AVIATION: It's good to find aluminum's dropped in the second sample out of Seven-Mike-Delta. Iron's higher than before, but it's not excessive for oil that's seen 48 hours of use. Universal averages are based on about 40 hours of oil use, for comparison. Maybe we were seeing corrosion back in 2022, or some other factor that's no longer driving up piston and steel wear. Whatever the case, this is a good report. Air and oil filtration kept silicon and insolubles low. No notable fuel or moisture contamination was found. The viscosity read in grade. Good!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	48	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES	
	MI/HR on Unit	834		583					
	Sample Date	5/7/2024		3/3/2022					
	Make Up Oil Added	2 qts							
ALUMINUM	4	4	10					5	
CHROMIUM	7	7	4					7	
IRON	51	51	37					47	
COPPER	2	2	1					5	
LEAD	4390	4390	534					4955	
TIN	1	1	0					1	
MOLYBDENUM	3	3	2					3	
NICKEL	7	7	2					8	
MANGANESE	1	1	1					1	
SILVER	0	0	0					0	
TITANIUM	0	0	0					0	
POTASSIUM	0	0	0					0	
BORON	0	0	1					1	
SILICON	4	4	8					8	
SODIUM	1	1	1					2	
CALCIUM	2	2	5					28	
MAGNESIUM	0	0	0					1	
PHOSPHORUS	4	4	12					414	
ZINC	5	5	2					9	
BARIUM	0	0	0					0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	93.8	86-105	88.7				
	cSt Viscosity @ 100°C	18.88	17.0-21.8	17.67				
Flashpoint in °F	435	>430	445					
Fuel %	<0.5	<1.0	<0.5					
Antifreeze %	-		-					
Water %	0.0	0.0	0.0					
Insolubles %	0.3	<0.6	0.2					
TBN								
TAN								
ISO Code								

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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