



OIL REPORT

LAB NUMBER: S260355

UNIT ID: N6081H

REPORT DATE: 7/29/2025

CLIENT ID: 85393

CODE: 20/436

PAYMENT: CC Online (Bulk)

UNIT

MAKE/MODEL: Lycoming O-360-A4M

OIL TYPE & GRADE: Phillips XC (A/C) 20W/50

FUEL TYPE: Gasoline (Leaded)

OIL USE INTERVAL: 15 Hours

ADDITIONAL INFO: Piper PA28-181, S/N: L-24052-36A, Millenium Cyl

CLIENT

YEV BONDAREV
CLASSIC AVIATION

PHONE: (540) 234-0226

63 AVIATION CIR

FAX:

WEYERS CAVE, VA 24486

ALT PHONE: (540) 820-2762

EMAIL: casiparts@gmail.com, classicaviationshd@gmail.com

COMMENTS

YEV: Chrome looks like it may be stabilizing around 11-12 ppm, so if it holds here next time, we'll unmark it as normal. Iron is lower at face value, but that metal tends to accrue directly with use on the oil, so we'd expect less after only 15 hours. This aircraft doesn't get flown much, so corrosion is a real possibility, and it typically presents as extra iron (and aluminum to a lesser extent). Regular flying or more frequent oil changes can help combat corrosion and avoid pitting in the cylinders. If the oil filter is free of excess metal and oil use is stable, just check back next oil.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	15	UNIT / LOCATION AVERAGES	20					UNIVERSAL AVERAGES
	MI/HR on Unit	1,153		1,138					
	Sample Date	7/3/2025		6/24/2024	5/23/2023				
	Make Up Oil Added			1 qt					
ALUMINUM	5	3		6	9				5
CHROMIUM	11	4		12	21				4
IRON	58	24		61	103				26
COPPER	4	4		4	7				6
LEAD	1626	5033		1794	1811				4019
TIN	1	1		1	0				1
MOLYBDENUM	0	0		0	0				0
NICKEL	2	2		2	4				2
MANGANESE	1	0		1	1				0
SILVER	0	0		0	0				0
TITANIUM	0	0		0	0				0
POTASSIUM	0	0		0	0				0
BORON	2	1		1	0				1
SILICON	7	5		5	6				5
SODIUM	2	2		1	1				1
CALCIUM	2	0		1	2				21
MAGNESIUM	0	0		0	0				1
PHOSPHORUS	7	137		5	8				627
ZINC	6	5		6	8				7
BARIUM	0	0		0	0				0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	95.6	86-105	92.0	91.0			
	cSt Viscosity @ 100°C	19.31	17.0-21.8	18.46	18.22			
	Flashpoint in °F	455	>430	475	460			
	Fuel %	<0.5	<1.0	<0.5	<0.5			
	Antifreeze %	-	-	-	-			
	Water %	0.0	0.0	0.0	0.0			
	Insolubles %	0.3	<0.6	0.1	0.3			
	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