

OIL REPORT

LAB NUMBER: L38686 **REPORT DATE:** 7/18/2019

CODE: 63/75 PAYMENT: CC: MC (Bulk)

UNIT ID: N4559A

CLIENT ID: 94166

MAKE/MODEL: Lycoming O-360-A4K OIL TYPE & GRADE: Phillips XC (A/C) 20W/50

FUEL TYPE: Gasoline (Leaded) OIL USE INTERVAL: 46 Hours

ADDITIONAL INFO: Gruman AA5B, S/N L-27042-36A

FRANS DEBLOIS PHONE: (301) 641-1547

DEBLOIS AEROSPACE FAX:

7940 AIRPARK ROAD - HANGAR B ALT PHONE: (301) 641-1547

GAITHERSBURG, MD 20879 EMAIL: ADMIN@DEBLOISAEROSPACE.COM,

frans@debloisaerospace.com

SMMENTS

FRANS: This engine is making a pretty good amount of metal. Aluminum tested quite high, and that, along with iron might show piston/steel wear, or maybe the two are related to corrosion. Nickel is also high, and unless that's a cylinder metal, it shows a good amount of exhaust valve guide wear. Maybe silicon is responsible for some of this, if it's abrasive. Check for air intake leaks or issues to monitor for that possibility. Watch for metal in the oil filter. Depending on how many oil changes have been done since OH, maybe some of this is wear-in. Monitor for trouble, though.

	MI/HR on Oil	46		8	34		
	MI/HR on Unit	153	UNIT / LOCATION AVERAGES	432	424		UNIVERSAL
	Sample Date	7/10/2019		7/11/2015	4/14/2015		AVERAGES
	Make Up Oil Added				2 qts		
N	ALUMINUM	45	25	17	29		7
LIO	CHROMIUM	5	8	4	5		6
MIL	IRON	89	83	71	129		34
	COPPER	8	12	5	16		8
꿈	LEAD	2518	3509	1865	4337		3601
Д	TIN	0	1	0	1		1
LS	MOLYBDENUM	0	0	0	1		0
AR.	NICKEL	27	20	21	47		2
Ъ	MANGANESE	1	1	1	1		0
Z	SILVER	0	0	0	0		0
S	TITANIUM	0	0	0	0		0
ΙË	POTASSIUM	0	1	2	2		1
	BORON	1	1	0	0		1
M	SILICON	14	8	7	9		6
H	SODIUM	0	1	1	2		1
	CALCIUM	8	4	4	2		17
	MAGNESIUM	1	0	0	0		1
	PHOSPHORUS	7	584	75	707		705
	ZINC	6	15	9	21		7
	BARIUM	0	0	0	0		0

Values

Should Be*

	SUS Viscosity @ 210°F	95.4	86-105	100.4	98.2		
	cSt Viscosity @ 100°C	19.26	17.0-21.8	20.45	19.94		
S	Flashpoint in °F	445	>430	445	460		
IIE	Fuel %	<0.5	<1.0	<0.5	<0.5		
α	Antifreeze %	-		-	-		
ROPE	Water %	0.0	0.0	0.0	0.0		
	Insolubles %	0.4	<0.6	0.4	0.2		
Δ	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