



OIL REPORT

LAB NUMBER: K18568
 REPORT DATE: 5/9/2018
 CODE: 20/75

UNIT ID: N329P
 CLIENT ID: 63053
 PAYMENT: CC: MC (Bulk)

UNIT	MAKE/MODEL: Lycoming O-320-E2G	OIL TYPE & GRADE: Phillips XC (A/C) 20W/50
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 50 Hours
	ADDITIONAL INFO: Grumman Cheetah AA-5A, S/N L-46843-27A, Used to be N9929U	

CLIENT	MISCHADEVA PORTER	PHONE: (817) 658-5988
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COMMENTS MISCHA: This Cheetah is putting up some great results with its latest sample. Metals are mostly steady or improved last time, and that's impressive considering this oil had over twice as much use on it. There isn't anything in these wear numbers or their established trends that'd point to a mechanical problem on the horizon. Adding to the good news, the trace of fuel from last time cleared right up so this report is free of any marks. The viscosity is in spec for the grade and insolubles (solids) are low enough to show proper oil filtration. Looking good, N329P!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	50	UNIT / LOCATION AVERAGES	22	61	50	47	58	UNIVERSAL AVERAGES
	MI/HR on Unit	3,362		3,282	3,252	3,138	3,089	3,042	
	Sample Date	4/2/2018		1/30/2018	7/14/2017	10/18/2016	6/2/2016	4/9/2016	
	Make Up Oil Added	5 qts		2 qts	8 qts	6 qts	4 qts	6 qts	
ALUMINUM	11	6	13	6	6	6	6	13	6
CHROMIUM	12	9	14	7	6	5	8	9	9
IRON	36	33	31	43	32	34	52	29	29
COPPER	5	4	5	3	3	2	3	6	6
LEAD	4802	4610	3157	5539	4278	4618	5387	2940	2940
TIN	0	1	1	1	0	1	0	1	1
MOLYBDENUM	0	0	0	0	0	0	0	0	0
NICKEL	4	4	3	5	3	4	4	2	2
MANGANESE	0	0	0	0	0	0	0	0	0
SILVER	0	0	0	0	0	0	0	0	0
TITANIUM	0	0	0	0	0	0	0	0	0
POTASSIUM	0	1	0	0	0	0	0	1	1
BORON	0	1	0	0	0	1	0	1	1
SILICON	5	5	7	4	3	3	3	5	5
SODIUM	0	1	1	0	1	1	1	1	1
CALCIUM	7	5	6	8	5	5	2	13	13
MAGNESIUM	0	1	1	0	0	1	1	1	1
PHOSPHORUS	0	97	2	1	19	0	2	485	485
ZINC	1	2	4	1	1	2	3	4	4
BARIUM	0	0	0	0	0	0	0	0	0

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	97.8	86-105	88.3	97.5	95.6	91.2	76.7
	cSt Viscosity @ 100°C	19.83	17.0-21.8	17.57	19.76	19.32	18.28	14.70
	Flashpoint in °F	445	>430	430	435	460	440	460
	Fuel %	<0.5	<1.0	TR	<0.5	<0.5	<0.5	<0.5
	Antifreeze %	-	-	-	-	-	-	-
	Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.4	<0.6	0.4	0.3	0.3	0.5	0.4
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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