

OIL REPORT

LAB NUMBER: G24795 **REPORT DATE:** 7/29/2014

UNIT ID: N3212T
CLIENT ID: 23123

CODE: 41/75 PAYMENT: CC: Discover

MAKE/MODEL: Lycoming O-320-E2D FUEL TYPE: Gasoline (Leaded)

OIL TYPE & GRADE: Aeroshell W100 (AD)

OIL USE INTERVAL: 44 Hours

ADDITIONAL INFO: Cessna 177; Eng S/N L-26623-27A

CHARLES MOUNT

SUWANEE, GA 30024

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DMMENTS

CLIENT

CHARLES: Thanks for the note about the cylinders all being steel. If they are Millennium steel instead of factory steel, that could still explain chrome--those cylinders are rich in chrome. Chrome certainly has been higher than average, but it's been steady and that's good. Nickel is steady too--enough so that we decided to stop highlighting it. Iron also tends to run higher than average. The good thing about this report is, this oil has 44 hours on it, compared to just 35 last time. On a per-hour basis, this report is a little better than the last two. Note fuel, likely harmless.

	MI/HR on Oil	44	UNIT / LOCATION AVERAGES	35	22	25	6	22	
	MI/HR on Unit	535		2,335	416	394	2,430	463	
	Sample Date	07/09/14		02/09/13	01/14/12	09/10/11	04/24/11	12/28/10	AVERAGES
	Make Up Oil Added	4 qts		2 qts	1 qt	2 qts	0 qts	2 qts	
NO	ALUMINUM	5	7	6	4	5	3	11	5
Ĭ	CHROMIUM	17	33	20	20	26	12	33	6
	IRON	56	47	47	34	34	27	128	24
	COPPER	6	8	7	6	6	3	6	5
ER	LEAD	3736	2114	2954	2365	2300	954	2416	2608
Д	TIN	3	2	1	4	3	0	0	1
TS	MOLYBDENUM	0	0	0	0	0	0	1	0
AR.	NICKEL	6	4	6	5	5	2	6	2
Ь	MANGANESE	0	0	1	0	0	0	1	0
Z	SILVER	0	0	0	0	0	0	0	0
S	TITANIUM	0	0	0	0	0	0	0	0
Ĕ	POTASSIUM	0	1	0	0	3	2	1	0
	BORON	0	0	1	1	0	0	1	0
EM	SILICON	4	7	4	4	4	3	5	5
н	SODIUM	1	0	1	0	0	0	0	1
	CALCIUM	0	2	0	0	0	0	10	13
	MAGNESIUM	0	0	0	0	0	0	1	1
	PHOSPHORUS	0	74	26	4	0	3	0	494
	ZINC	2	3	2	1	0	0	6	4
	BARIUM	0	0	0	0	0	0	0	0

Values

Should Be*

SUS Viscosity @ 210°F	98.5	86-105	94.5	85.8	90.7	93.4	90.3
cSt Viscosity @ 100°C	20.01	17.0-21.8	19.05	16.97	18.15	18.79	18.05
Flashpoint in °F	445	>460	530	460	515	490	480
Fuel %	0.8	<1.0	<0.5	TR	<0.5	<0.5	<0.5
Antifreeze %	-		-	1	-	-	-
Water %	0.0	<0.1	0.0	0.0	0.0	0.0	0.0
Insolubles %	0.3	<0.6	0.4	0.3	0.0	0.2	0.3
TBN							
TAN						·	
ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE