

## OIL REPORT

**LAB NUMBER:** H39585 **REPORT DATE:** 3/23/2016

**UNIT ID:** N3212T **CLIENT ID:** 23123

CODE: 41/32 PAYMENT: CC: Discover

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

OIL TYPE & GRADE: Aeroshell W100 (AD)

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

OIL USE INTERVAL: 44 Hours

CHARLES MOUNT

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OMMENTS

CLIENT

CHARLES: Metals continue to increase in this latest report from N3212T, and lead (from fuel blow-by) is going up as well. A few years ago, we weren't marking chrome at these levels, but unless the engine has chrome or Millennium steel cylinders, this level of chrome could show ring wear. Iron, from steel parts like cylinders, is at the highest level on the page, and if there's a ring/cylinder problem, that could be leading to the excess blow-by. It's also possible that operational conditions are affecting things, but test compressions and try 25 hours to monitor.

	MI/HR on Oil	44		44	35	22	25	6	
	MI/HR on Unit	602	AVENAGEO	535	2,335	416	394	2,430	UNIVERSAL
	Sample Date	3/8/2016		7/9/2014	2/9/2013	1/14/2012	9/10/2011	4/24/2011	AVERAGES
	Make Up Oil Added	2 qts		4 qts	2 qts	1 qt	2 qts	0 qts	
N	ALUMINUM	10	7	5	6	4	5	3	5
CIO	CHROMIUM	25	32	17	20	20	26	12	6
MIL	IRON	81	49	56	47	34	34	27	24
2	COPPER	6	8	6	7	6	6	3	5
띪	LEAD	5051	2297	3736	2954	2365	2300	954	2714
Д	TIN	3	2	3	1	4	3	0	1
LS	MOLYBDENUM	0	0	0	0	0	0	0	0
<u>'</u>	NICKEL	6	4	6	6	5	5	2	2
ΡA	MANGANESE	1	0	0	1	0	0	0	0
Z	SILVER	0	0	0	0	0	0	0	0
S	TITANIUM	0	0	0	0	0	0	0	0
Ĕ	POTASSIUM	2	1	0	0	0	3	2	1
	BORON	1	0	0	1	1	0	0	1
EΜ	SILICON	4	7	4	4	4	4	3	5
	SODIUM	2	0	1	1	0	0	0	1
•••	CALCIUM	0	2	0	0	0	0	0	15
	MAGNESIUM	0	0	0	0	0	0	0	1
	PHOSPHORUS	6	70	0	26	4	0	3	525
	ZINC	2	3	2	2	1	0	0	4
	BARIUM	0	0	0	0	0	0	0	0

Values

Should Be\*

SUS Viscosity @ 210°F	99.2	86-105	98.5	94.5	85.8	90.7	93.4
cSt Viscosity @ 100°C	20.18	17.0-21.8	20.01	19.05	16.97	18.15	18.79
Flashpoint in °F	470	>460	445	530	460	515	490
Fuel %	<0.5	<1.0	0.8	<0.5	TR	<0.5	<0.5
Antifreeze %	-		-	-	-	-	-
Water %	0.0	<0.1	0.0	0.0	0.0	0.0	0.0
Insolubles %	0.4	<0.6	0.3	0.4	0.3	0.0	0.2
TBN							
TAN						·	·
ISO Code							

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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