



OIL REPORT

LAB NUMBER:
 REPORT DATE: 2/11/2019
 CODE: 20/32

UNIT ID: 88 OLDS
 CLIENT ID:
 PAYMENT: Prepaid

UNIT	MAKE/MODEL: Oldsmobile 307 CID V-8	OIL TYPE & GRADE: Valvoline All-Climate 10W/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 3,279 Miles
	ADDITIONAL INFO: Custom Cruiser	

CLIENT	:
	:
	:
	:
	:

COMMENTS Is there a noticeable difference in these results after using different grades? Honestly, not really, and that's not too unusual because the grade doesn't typically change how the engine wears. The established trend shows improving wear, but that's mostly due to wear-in material washing out. The fact that wear metals are around the same levels as last time after using a much longer interval shows the last of the wear-in stuff is gone, and that your engine is wearing well. Sodium is an additive in this oil and potassium is low, so no coolant is suspected.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	3,279	UNIT / LOCATION AVERAGES	1,828	1,126	1,061	UNIVERSAL AVERAGES
	MI/HR on Unit	11,701		8,422	2,881	1,755	
	Sample Date	2/2/2019		10/12/2018	6/2/2018	5/18/2018	
	Make Up Oil Added			0 qts	0 qts	0 qts	
ALUMINUM	4	7	6	7	10	9	
CHROMIUM	1	1	1	1	1	3	
IRON	20	25	22	24	34	48	
COPPER	7	17	8	17	37	18	
LEAD	6	13	7	11	29	10	
TIN	1	2	1	2	4	2	
MOLYBDENUM	17	80	48	72	183	66	
NICKEL	0	0	0	0	0	0	
MANGANESE	1	2	1	1	3	1	
SILVER	0	0	0	0	0	0	
TITANIUM	1	2	7	0	1	1	
POTASSIUM	3	3	1	2	4	2	
BORON	41	200	273	401	84	160	
SILICON	7	12	11	12	17	10	
SODIUM	286	103	79	14	33	73	
CALCIUM	2030	2875	3117	3933	2419	2196	
MAGNESIUM	86	34	17	14	20	229	
PHOSPHORUS	813	918	909	1118	833	926	
ZINC	941	1081	1103	1284	995	1060	
BARIUM	0	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°	67.4	65-76	61.6	62.9	55.0
	cSt Viscosity @ 100°C	12.26	11.6-14.8	10.67	11.02	8.78
Flashpoint in °F	410	>375	415	440	425	
Fuel %	<0.5	<1.0	<0.5	<0.5	<0.5	
Antifreeze %	0.0	0	?	0.0	0.0	
Water %	0.0	<0.1	0.0	0.0	0.0	
Insolubles %	0.1	<0.6	0.4	0.2	0.2	
TBN						
TAN						
ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380