



OIL REPORT

LAB NUMBER: J27639
 REPORT DATE: 5/1/2017
 CODE: 20/133

UNIT ID: 99 MIATA
 CLIENT ID: 18669
 PAYMENT: CC: Visa (Bulk)

UNIT	MAKE/MODEL: GM LS-1 5.7L 346 CI V-8	OIL TYPE & GRADE: Gasoline Engine Oil
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 5,040 Miles
	ADDITIONAL INFO:	

CLIENT	MIKE BRIDGES	PHONE: (817) 219-1241
	209 MEADOW LAKE DR	FAX:
	HOT SPRINGS, AR 71913	ALT PHONE: (817) 832-0648
		EMAIL: vettedrnr2@gmail.com

COMMENTS MIKE: It's been a few years since we last saw a sample, but not much has changed except maybe our averages. Since universal averages are based on the samples we see, they are constantly changing and getting better. In the past, copper was marked, but this level is fairly normal for the LS-1 engine as shown by the 28 ppm in the average column, so we unmarked it here. Aluminum is elevated and shows wear at the pistons and silicon has been on a slow decline over the years. Check the air intake for leaks just in case it shows abrasive dirt. Use 5k miles again.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	5,040	UNIT / LOCATION AVERAGES	3,162	8,535	2,315	UNIVERSAL AVERAGES
	MI/HR on Unit	21,700		16,659	13,500	4,315	
	Sample Date	4/10/2017		12/9/2014	12/17/2013	5/12/2012	
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts	
ALUMINUM	8	5	8	10	6	4	
CHROMIUM	4	1	3	4	2	1	
IRON	19	15	14	26	18	16	
COPPER	30	6	31	33	28	28	
LEAD	9	5	8	8	3	6	
TIN	5	1	0	0	1	1	
MOLYBDENUM	79	65	81	73	76	71	
NICKEL	1	1	1	1	1	1	
MANGANESE	2	1	1	2	1	2	
SILVER	0	0	0	0	0	0	
TITANIUM	0	1	0	0	0	0	
POTASSIUM	5	1	1	3	2	2	
BORON	36	51	80	47	63	65	
SILICON	23	11	25	31	39	10	
SODIUM	15	38	12	16	26	16	
CALCIUM	982	2073	1063	987	1075	2205	
MAGNESIUM	729	199	748	758	734	291	
PHOSPHORUS	666	674	699	704	655	749	
ZINC	777	806	821	797	743	891	
BARIUM	0	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	56.8		56.9	57.3	58.2	
	cSt Viscosity @ 100°C	9.30		9.34	9.45	9.71	
	Flashpoint in °F	390	>375	370	415	405	
	Fuel %	<0.5	<2.0	<0.5	<0.5	<0.5	
	Antifreeze %	0.0	0.0	0.0	0.0	0.0	
	Water %	0.0	0.0	0.0	0.0	0.0	
	Insolubles %	0.3	<0.6	0.6	0.4	0.4	
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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