



OIL REPORT

LAB NUMBER: UNIT ID: 99 MX5
 REPORT DATE: 11/19/2014 CLIENT ID:
 CODE: PAYMENT:

UNIT	MAKE/MODEL: Mazda 1.8L 4-cyl	OIL TYPE & GRADE: Shell Rotella T6 5W/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 3,123 Miles
	ADDITIONAL INFO: Miata	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS DAVID: What a nice sample! This engine is making some really nice trends now that the wear-in stuff has washed out so we'll be looking for steady readings from here. Most metals will hold steady within a few ppm. If you decide to run longer on your oil (and we do think that'd be fine), then iron will probably increase a bit as you increase your oil runs. As long as it's fairly steady on a ppm/mile basis (and other metals don't move much), a little extra iron is fine -- not that you have anything to worry about yet. The TBN was fine. Try up to 5,000 miles next time. Nice engine!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	3,123	UNIT / LOCATION AVERAGES	3,040	578	400	UNIVERSAL AVERAGES
	MI/HR on Unit	7,141		4,018	978	400	
	Sample Date	09/11/14		04/14/14	2/16/2014	2/5/2014	
	Make Up Oil Added	2.5 qts		3.5 qts	0 qts	0 qts	
ALUMINUM	4	5	5	5	5	3	
CHROMIUM	1	1	1	1	1	1	
IRON	11	14	12	16	15	10	
COPPER	5	7	5	8	8	4	
LEAD	3	5	3	7	5	3	
TIN	0	1	2	0	2	1	
MOLYBDENUM	73	38	70	4	5	91	
NICKEL	0	0	0	0	0	0	
MANGANESE	0	1	0	1	1	1	
SILVER	0	1	0	2	0	0	
TITANIUM	0	0	0	0	0	0	
POTASSIUM	0	4	0	7	9	1	
BORON	27	18	41	1	2	61	
SILICON	12	69	17	123	124	11	
SODIUM	14	10	11	8	8	37	
CALCIUM	989	702	948	425	446	2213	
MAGNESIUM	1519	736	1410	8	7	197	
PHOSPHORUS	1271	1820	1274	2302	2432	791	
ZINC	1599	2146	1583	2746	2654	919	
BARIUM	0	1	0	1	1	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°	75.7	65-78	74.9	75.6	74.8
	cSt Viscosity @ 100°C	14.43	11.6-15.3	14.24	14.41	14.21
	Flashpoint in °F	395	>375	460	410	440
	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	<0.1	0.0	0.0	0.0
	Insolubles %	0.1	<0.6	0.3	0.5	0.4
	TBN	9.2	>1.0		1.6	1.5
	TAN					
	ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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