

OIL REPORT

LAB NUMBER: P06536 **REPORT DATE:** 11/10/2021

CLIENT ID: 166525

PAYMENT: CC: Visa

UNIT ID: 01 MIATA

MAKE/MODEL: Mazda 1.8L 4-cyl OIL TYPE & GRADE: Total 5W/40 FUEL TYPE: Gasoline (Unleaded) OIL USE INTERVAL: 500 Miles

ADDITIONAL INFO: 1993, Rods and main bearings changed before 04/07/21 sample

JOSH CASTALDI PHONE: (503) 913-0927

19076 RUSTY TERR. FAX:

OREGON CITY, OR 97045 ALT PHONE:

EMAIL: joshua.castaldi@gmail.com

CODE: 20/68

DMMENTS

CLIENT

JOSH: Now that's more like it! Copper and lead are low this time, so bearing wear isn't a concern based on this data. Other wear metals look good as well, so we're pleased with these results. Silicon is probably from sealers/gaskets/lubes used during the service and it should wash out nicely with each oil change going forward. If it were dirt, we'd find more wear than this, but check the air filter/intake anyway, just in case some of the silicon is dirt. The viscosity is low and in the 5W/20 range or so, and a trace of fuel is harmless. Nice progress at 2,500 total miles!

	MI/HR on Oil	500		315	500	400		
	MI/HR on Unit	2,500	UNIT / LOCATION AVERAGES	1,500		400		UNIVERSAL
	Sample Date	10/18/2021		6/13/2021	4/7/2021	8/8/2020		AVERAGES
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts		
N	ALUMINUM	4	5	3	5	6		3
MILLIO	CHROMIUM	1	1	0	1	1		1
▕	IRON	9	15	12	22	15		9
	COPPER	3	36	13	74	53		4
띪	LEAD	1	44	12	89	72		2
Д	TIN	0	4	3	6	7		0
ITS IN PARTS	MOLYBDENUM	67	20	4	7	1		96
	NICKEL	0	1	0	1	2		0
	MANGANESE	1	1	0	1	0		1
	SILVER	1	6	7	15	0		0
	TITANIUM	0	1	1	1	0		2
	POTASSIUM	2	1	1	0	1		2
	BORON	142	52	64	1	1		79
EM	SILICON	307	135	30	142	59		13
н	SODIUM	7	6	5	6	7		34
	CALCIUM	918	990	2330	304	408		1874
	MAGNESIUM	439	118	18	5	10		333
	PHOSPHORUS	602	1406	1028	2053	1940		813
	ZINC	655	1548	1154	2236	2145		940
	BARIUM	0	0	0	0	0		0

Values Should Be*

SUS Viscosity @ 210°	F 53.7	65-78	67.4	55.2	54.6	
cSt Viscosity @ 100°C	8.39	11.6-15.3	12.25	8.83	8.65	
Flashpoint in °F	380	>385	425	355	380	
Fuel %	TR	<2.0	<0.5	1.0	TR	
Antifreeze %	0.0	0.0	0.0	0.0	0.0	
Water %	0.0	<0.1	0.0	0.0	0.0	
Insolubles %	0.3	<0.6	0.1	0.4	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 www.blackstone-labs.com