

## OIL REPORT

LAB NUMBER: L91295 REPORT DATE: 1/9/2020 UNIT ID: 90 MIATA
CLIENT ID: 155078
PAYMENT: CC: Visa

JNIT

CLIENT

MAKE/MODEL: Mazda 1.6L 4-cyl FUEL TYPE: Gasoline (Unleaded)

OIL TYPE & GRADE: Mobil 1 10W/30
OIL USE INTERVAL: 1,000 Miles

ADDITIONAL INFO: Built motor, ACC race bearings

MARTIN ASTROMOWICZ 516 JERUSALEM RD

WINDHAM, CT 06280

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OMMENTS

MARTIN: Most metals are high. Built engines that are used for racing tend to wear a bit more than average, but there probably is some excess wear taking place in this 4-cylinder. Note coolant contaminating is evident in the potassium and sodium levels, so that's probably taking a toll on pistons (aluminum), cylinder/shafts (iron), and brass/bronze parts (copper, lead). Fuel might have impacted the viscosity, but just a trace amount isn't usually harmful otherwise. Keep oil changes to 1,000 miles or less until the coolant leak is addressed. The TBN was a strong 7.1 (1.0 is low).

	MI/HR on Oil	1,000					
	MI/HR on Unit	6,000	UNIT / LOCATION AVERAGES				UNIVERSAL AVERAGES
	Sample Date	12/27/2019					
	Make Up Oil Added	0 qts					
MILLION	ALUMINUM	8					3
	CHROMIUM	1					1
▕	IRON	20					9
	COPPER	17					3
ER	LEAD	8					1
Д	TIN	1					0
TS	MOLYBDENUM	70					115
AR.	NICKEL	0					0
Ь	MANGANESE	0					1
Z	SILVER	0					0
S	TITANIUM	0					2
ĭ	POTASSIUM	45					2
N EN	BORON	71					65
ELEME	SILICON	22					12
	SODIUM	57					37
	CALCIUM	961					1912
	MAGNESIUM	635					237
	PHOSPHORUS	647					814
	ZINC	711					952
	BARIUM	0					0

Values Should Be\*

SUS Viscosity @ 210°F	55.2	58-68			
cSt Viscosity @ 100°C	8.82	9.7-12.7			
Flashpoint in °F	375	>375			
Fuel %	TR	<2.0			
Antifreeze %	POS	0.0			
Water %	0.0	0.0			
Insolubles %	0.3	<0.6			
TBN	7.1	>1.0			
TAN					
ISO Code					

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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