

OIL **REPORT**

REPORT DATE: 3/28/2016 **UNIT ID:** 07 RX-8

MAKE/MODEL:

Mazda 1.3L Renesis (Rotary)

FUEL TYPE: Gasoline (Unleaded)

ADDITIONAL INFO:

OIL TYPE & GRADE: Shell Rotella T6 5W/40

OIL USE INTERVAL: 6,029 Miles

It's unusual to see a Renesis engine with no make-up oil after 6,000 miles, but maybe it's not all that surprising considering how nicely this engine is wearing. Universal averages show typical wear levels for this type of engine after about 2,900 miles on the oil. This was obviously a longer run, but aside from a little more iron, you really wouldn't know it. The TBN is strong at 3.6, showing plenty of active additive left since it's not considered low until it reaches 1.0 or less. The viscosity is in the 5W/30 range, but it still got the job done. Try 8,000 miles on the next oil.

MI/HR on Oil	6,029				
MI/HR on Unit	65,979	UNIT / LOCATION			UNIVERSAL
Sample Date	3/19/2016	AVERAGES			AVERAGES
Make Up Oil Added	0 qts				
ALUMINUM	1	1			2
ALUMINUM CHROMIUM IRON CORDER	4	4			7
IRON	35	35			22
COPPER	1	1			2
LEAD TIN	2	2			3
1114	6	6			1
MOLYBDENUM NICKEL MANGANESE	52	52			96
NICKEL	1	1			0
	0	0			0
SILVER	0	0			0
I I I I ANIUM	0	0			0
POTASSIUM	0	0			2
BORON	24	24			58
POTASSIUM BORON SILICON SODIUM	8	8			10
SODIUM	6	6			66
CALCIUM	592	592			2041
MAGNESIUM	878	878			111
PHOSPHORUS	953	953			738
ZINC	877	877			874
BARIUM	0	0			0

Values

Should Be*

SUS Viscosity @ 210°F	58.0	65-78			
cSt Viscosity @ 100°C	9.65	11.6-15.3			
Flashpoint in °F	380	>375			
Fuel %	<0.5	<2.0			
Antifreeze %	0.0	0.0			
Water %	0.0	0.0			
Insolubles %	0.2	<0.6			
TBN	3.6	>1.0			
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