



OIL REPORT

LAB NUMBER: K63347
 REPORT DATE: 10/19/2018
 CODE: 20/685

UNIT ID: 2004 RX8
 CLIENT ID: 132977
 PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Mazda 1.3L Renesis (Rotary)	OIL TYPE & GRADE: Castrol GTX 20W/50
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 3,200 Miles
	ADDITIONAL INFO:	

CLIENT	PHONE: [REDACTED]
	FAX: [REDACTED]
	ALT PHONE: [REDACTED]
	EMAIL: [REDACTED]

COMMENTS KEVIN: Universal averages show typical wear levels for this type of engine after about 3,000 miles on the oil. You went a tad longer than that, but still managed to get excellent results. The oil additives do seem a bit diluted and maybe the wear metals are too. Fuel is not the culprit since it's low at just a trace. Maybe the additives you used have diluted the oil a little. Even if that's the case, it doesn't seem to be harmful. You didn't have to add any oil, which is impressive for a rotary. The TBN of 4.0 shows active additive left for a longer run. No obvious problems.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	3,200	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	17,000						
	Sample Date	10/6/2018						
	Make Up Oil Added	0 qts						
	ALUMINUM	3	3					2
	CHROMIUM	1	1					7
	IRON	7	7					22
	COPPER	1	1					2
	LEAD	2	2					3
	TIN	0	0					1
	MOLYBDENUM	50	50					95
	NICKEL	0	0					1
	MANGANESE	0	0					0
	SILVER	0	0					0
	TITANIUM	1	1					1
	POTASSIUM	1	1					2
	BORON	81	81					61
	SILICON	7	7					10
	SODIUM	11	11					60
	CALCIUM	1615	1615					2023
	MAGNESIUM	11	11					116
	PHOSPHORUS	480	480					727
	ZINC	527	527					861
	BARIUM	0	0					0

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	77.6	74-90				
	cSt Viscosity @ 100°C	14.93	14.0-18.2				
	Flashpoint in °F	375	>375				
	Fuel %	TR	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	0.0				
	Insolubles %	0.1	<0.6				
	TBN	4.0	>1.0				
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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