



Sample Number : 15008800133
Site Name : OVERLAKE OIL INC.
Equipment Ref ID : 2009 MAZDA RX8
Equipment Description : UNKNOWN ID 5/7/2015
Component Ref ID :
Component Description : ENGINE
Manuf./Model : Mazda Motor Corporation/ RX8
Lubricant Name : Unspecified Engine Oil 5W-20

LubeAnalyst Number : 01349621/EGP01

SHELL CONTACTS

Focal point 1 : LubeAnalyst Customer Service

Focal point 1 phone : +18772518313

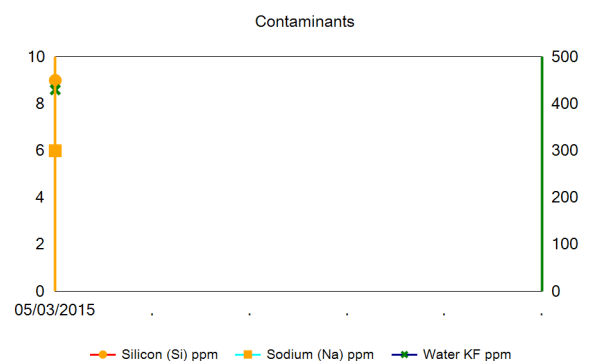
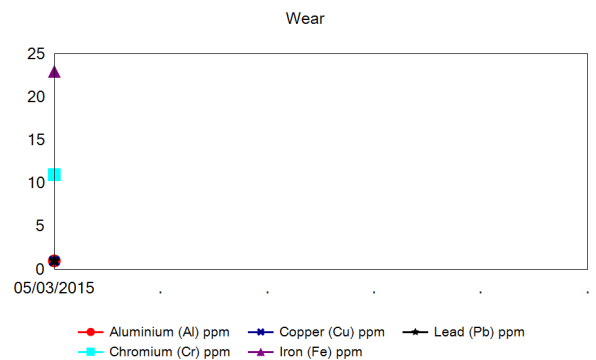
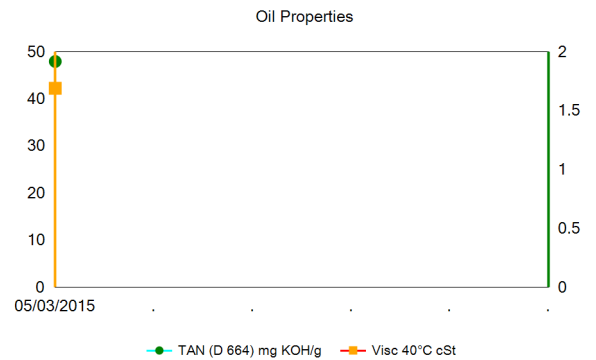
Shell Website : <http://www.shell-lubeanalyst.shell.com/>

COMMENTS

Chrome is at a MODERATE LEVEL and is possibly coming from piston ring plating.

RESULTS

Sample Number	15008800133		
Sample Condition	Caution		
Sample Date	05/03/2015		
Equipment Life	23990 Miles		
Lubricant Life	3000 Miles		
Top-up Volume	1 Gallons (US)		
Oil Drain	Yes		
Appearance (Special)			
Appearance	Opaque		
Viscosity 40°C			
Visc 40°C cSt	42.3		
TAN (D 664)			
TAN (D 664) mg KOH/g	1.92		
Water KF (D1744/D6304)			
Water KF ppm	430		
Spectrometry (Oils)			
Iron (Fe) ppm	23		
Chromium (Cr) ppm	11		
Nickel (Ni) ppm	0		
Aluminium (Al) ppm	1		
Copper (Cu) ppm	1		
Lead (Pb) ppm	1		
Tin (Sn) ppm	0		
Cadmium (Cd) ppm	0		
Silver (Ag) ppm	0		
Titanium (Ti) ppm	0		
Vanadium (V) ppm	0		
Silicon (Si) ppm	9		
Sodium (Na) ppm	6		
Potassium (K) ppm	0		
Molybdenum (Mo) ppm	104		
Antimony (Sb) ppm	1		
Manganese (Mn) ppm	0		
Lithium (Li) ppm	0		
Boron (B) ppm	107		
Magnesium (Mg) ppm	7		
Calcium (Ca) ppm	2354		
Barium (Ba) ppm	0		
Phosphorus (P) ppm	723		
Zinc (Zn) ppm	856		
Particle Count (ISO 4406 New)			
ISO 4406:1999	15/14/11		



Particle Count (ISO 4406 New)			
ISO 4406:1999 (> 4 μ)	201		
ISO 4406:1999 (> 6 μ)	109		
ISO 4406:1999 (> 10 μ)	40		
ISO 4406:1999 (> 14 μ)	18		
ISO 4406:1999 (> 21 μ)	6		
ISO 4406:1999 (> 38 μ)	0		
ISO 4406:1999 (> 70 μ)	0		
ISO 4406:1999 (>100 μ)	0		