



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
UNKNOWN SHIP NAME
Machine Id
MARQUIS 2009 MARQUIS 50 SC
Component
Genset
Fluid
DIESEL ENGINE OIL SAE 30 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0950385	---	---
Sample Date		Client Info		02 Jun 2024	---	---
Machine Age	hrs	Client Info		167	---	---
Oil Age	hrs	Client Info		20	---	---
Filter Age	hrs	Client Info		20	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	14	---	---
Chromium	ppm	ASTM D5185(m)	>4	0	---	---
Nickel	ppm	ASTM D5185(m)	>2	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>5	0	---	---
Aluminum	ppm	ASTM D5185(m)	>12	<1	---	---
Lead	ppm	ASTM D5185(m)	>17	2	---	---
Copper	ppm	ASTM D5185(m)	>70	3	---	---
Tin	ppm	ASTM D5185(m)	>15	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

There is no indication of any contamination in the oil.

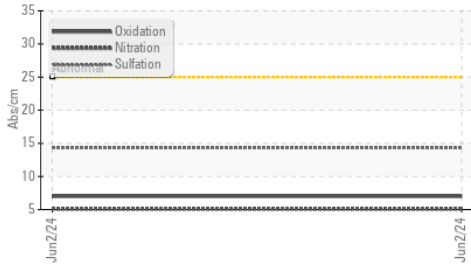
Silicon	ppm	ASTM D5185(m)	>25	15	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Fuel		WC Method	>4.0	<1.0	---	---
Water		WC Method	>0.1	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	5.1	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	14.3	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---

FLUID CONDITION

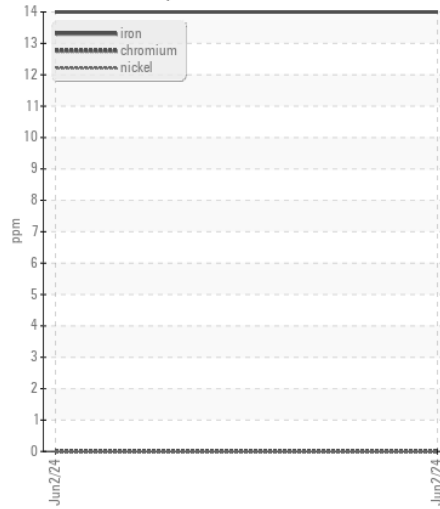
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>75	2	---	---
Boron	ppm	ASTM D5185(m)	250	2	---	---
Barium	ppm	ASTM D5185(m)	10	0	---	---
Molybdenum	ppm	ASTM D5185(m)	100	89	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)	450	210	---	---
Calcium	ppm	ASTM D5185(m)	3000	2110	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	807	---	---
Zinc	ppm	ASTM D5185(m)	1350	907	---	---
Sulfur	ppm	ASTM D5185(m)	4250	4526	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	7.0	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	11.8	---	---

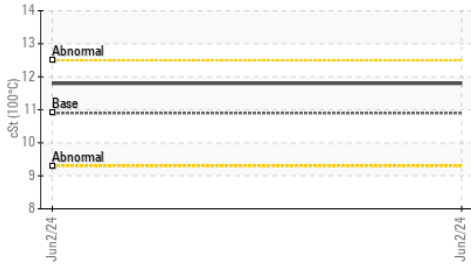
FT-IR (Direct Trend)



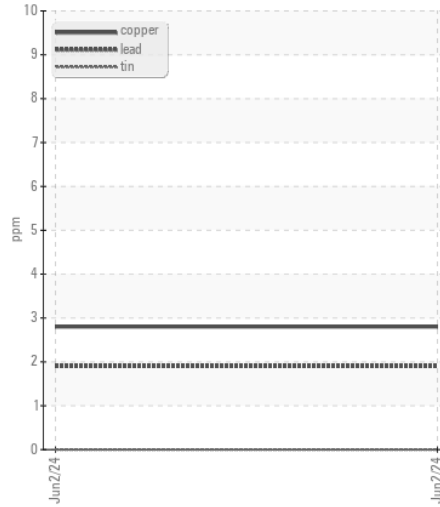
Ferrous Alloys



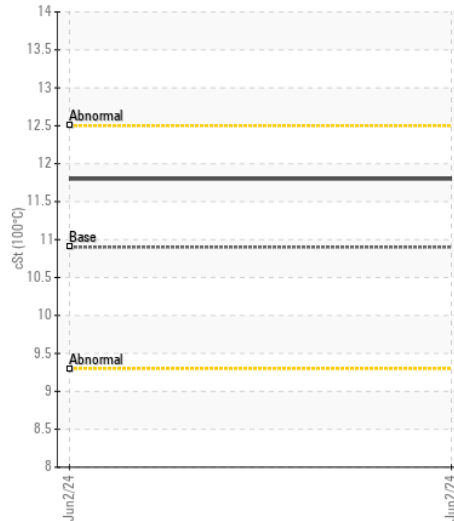
Viscosity @ 100°C



Non-ferrous Metals



Viscosity @ 100°C



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0950385
Lab Number : 02639540
Unique Number : 5788702
Test Package : MAR 1
Received : 04 Jun 2024
Tested : 05 Jun 2024
Diagnosed : 05 Jun 2024 - Wes Davis

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.