



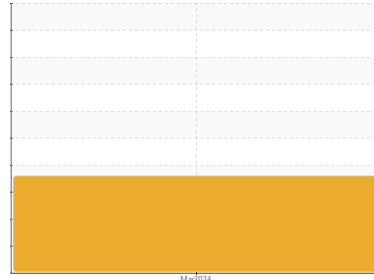
OIL ANALYSIS REPORT

Sample Rating Trend

WATER

Area
[33160]
Machine Id
NO UNIT 02623014

Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)



DIAGNOSIS

▲ Recommendation

We advise that you check for the source of water entry. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

There is a moderate concentration of water present in the oil. Free water present. There is a moderate concentration of dirt present in the oil. Test for glycol is negative.

▲ Fluid Condition

Viscosity of sample indicates oil is within ISO 122 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC	---	---
Sample Date	Client Info	14 Mar 2024	---	---
Machine Age	hrs Client Info	6015	---	---
Oil Age	hrs Client Info	400	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	---	---
Water	WC Method >0.2	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185(m) >100	12	---	---
Chromium ppm	ASTM D5185(m) >20	<1	---	---
Nickel ppm	ASTM D5185(m) >4	0	---	---
Titanium ppm	ASTM D5185(m)	0	---	---
Silver ppm	ASTM D5185(m) >3	0	---	---
Aluminum ppm	ASTM D5185(m) >20	4	---	---
Lead ppm	ASTM D5185(m) >40	<1	---	---
Copper ppm	ASTM D5185(m) >330	<1	---	---
Tin ppm	ASTM D5185(m) >15	0	---	---
Antimony ppm	ASTM D5185(m)	0	---	---
Vanadium ppm	ASTM D5185(m)	0	---	---
Beryllium ppm	ASTM D5185(m)	0	---	---
Cadmium ppm	ASTM D5185(m)	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185(m) 250	205	---	---
Barium ppm	ASTM D5185(m) 10	0	---	---
Molybdenum ppm	ASTM D5185(m) 100	248	---	---
Manganese ppm	ASTM D5185(m)	0	---	---
Magnesium ppm	ASTM D5185(m) 450	785	---	---
Calcium ppm	ASTM D5185(m) 3000	1475	---	---
Phosphorus ppm	ASTM D5185(m) 1150	891	---	---
Zinc ppm	ASTM D5185(m) 1350	1046	---	---
Sulfur ppm	ASTM D5185(m) 4250	2663	---	---
Lithium ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

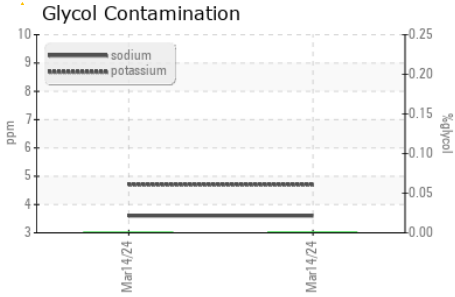
method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185(m) >25	▲ 63	---	---
Sodium ppm	ASTM D5185(m) >158	4	---	---
Potassium ppm	ASTM D5185(m) >20	5	---	---
Glycol %	ASTM D7922*	0.0	---	---

INFRA-RED

method	limit/base	current	history1	history2
Soot %	ASTM D7844* >3	0.3	---	---
Nitration Abs/cm	ASTM D7624* >20	10.2	---	---
Sulfation Abs./1mm	ASTM D7415* >30	19.9	---	---



OIL ANALYSIS REPORT



FLUID DEGRADATION

Method	Limit/Base	Current	History1	History2
Oxidation	Abs:1mm ASTM D7414*	>25	17.4	---

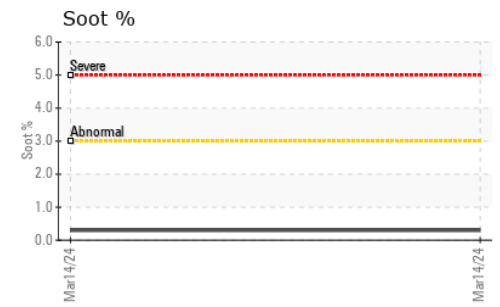
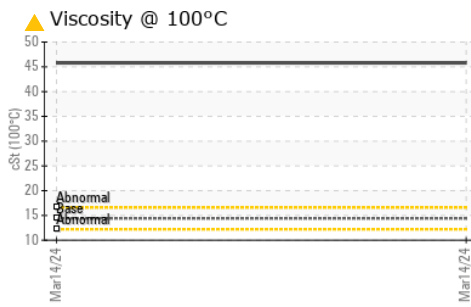
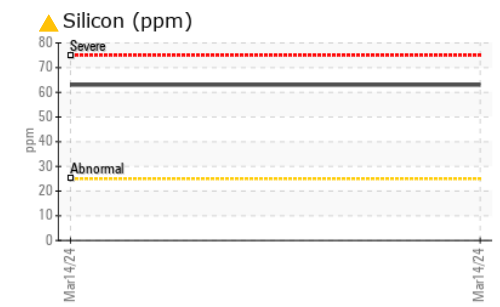
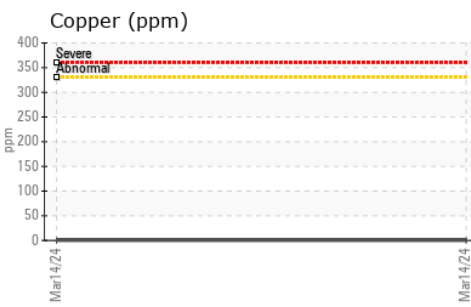
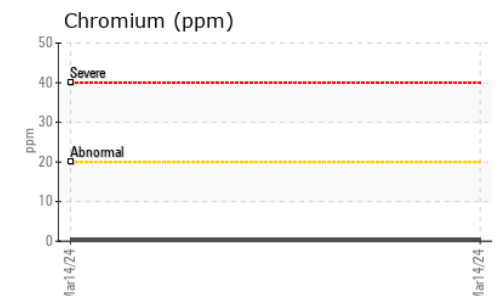
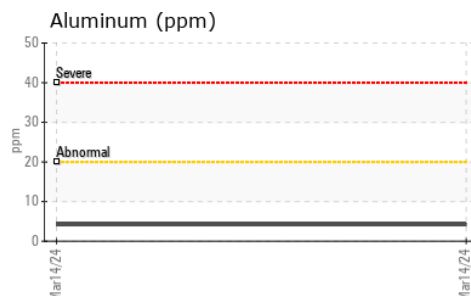
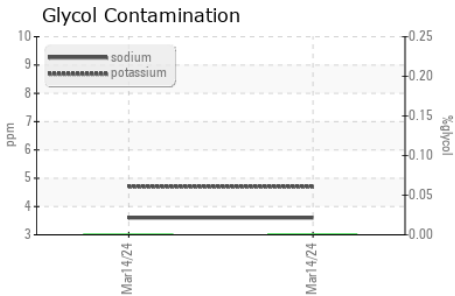
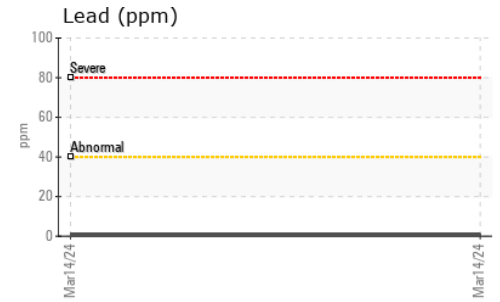
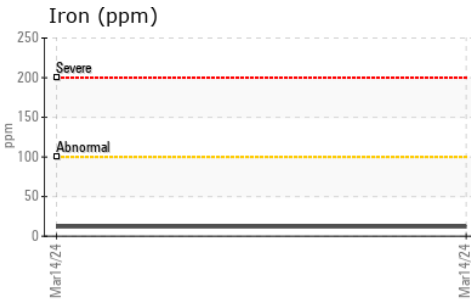
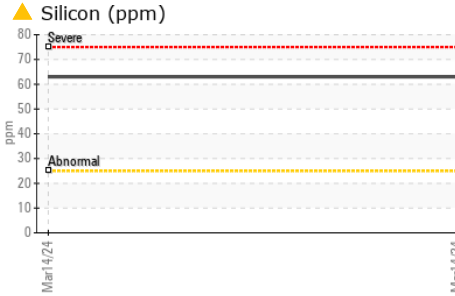
VISUAL

Method	Limit/Base	Current	History1	History2
Emulsified Water	scalar Visual*	>0.2	▲ .2%	---
Free Water	scalar Visual*		▲ 1%	---

FLUID PROPERTIES

Method	Limit/Base	Current	History1	History2
Visc @ 100°C	cSt ASTM D7279(m)	14.4	▲ 45.8	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC
Lab Number : 02623014
Unique Number : 5748133
Test Package : MOB 1 (Additional Tests: Glycol)

Received : 19 Mar 2024
Tested : 19 Mar 2024
Diagnosed : 20 Mar 2024 - Kevin Marson

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.

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