



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**EQUINOX [154818]**

Machine Id

**6HN01192**

Component

**Diesel Engine**

Fluid

**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>CU0022880</b>	CU0020861	---
Sample Date		Client Info		<b>02 Apr 2024</b>	27 Mar 2023	---
Machine Age	hrs	Client Info		<b>646</b>	624	---
Oil Age	hrs	Client Info		<b>18</b>	0	---
Filter Age	hrs	Client Info		<b>36</b>	0	---
Oil Changed		Client Info		<b>Not Changed</b>	N/A	---
Filter Changed		Client Info		<b>Changed</b>	N/A	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>3</b>	3	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>2</b>	2	---
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	1	---
Copper	ppm	ASTM D5185(m)	>330	<b>8</b>	7	---
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---

## CONTAMINATION

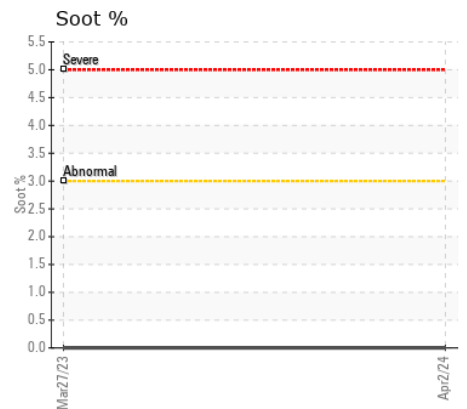
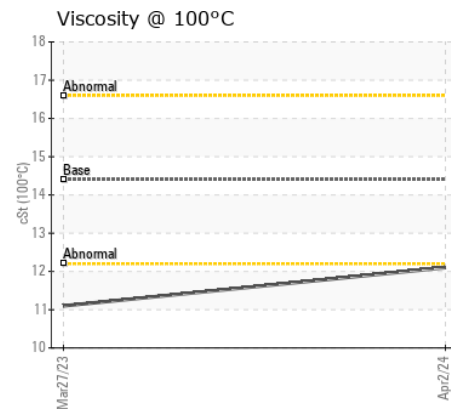
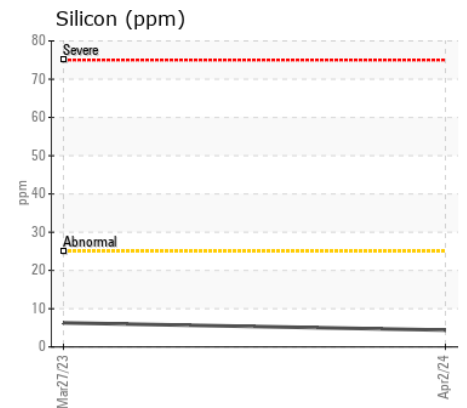
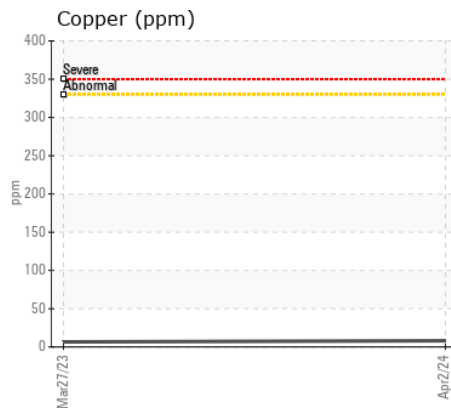
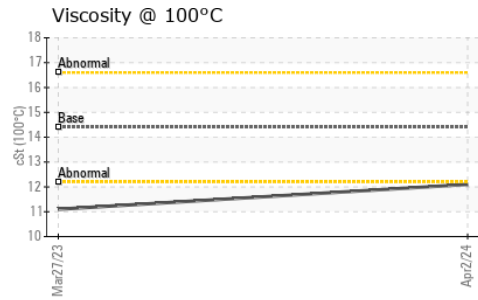
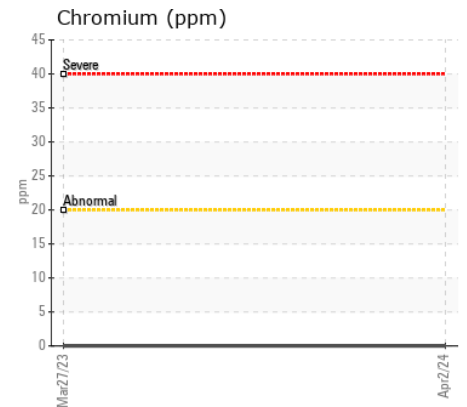
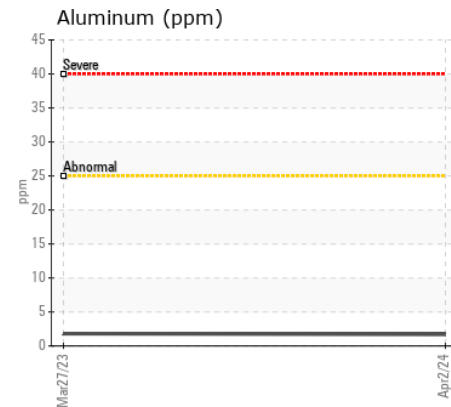
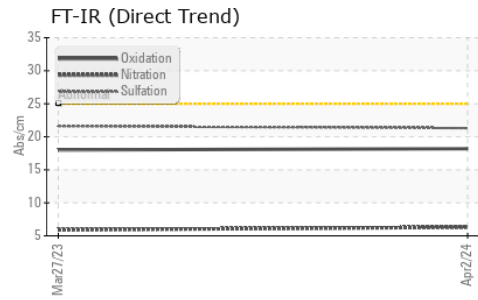
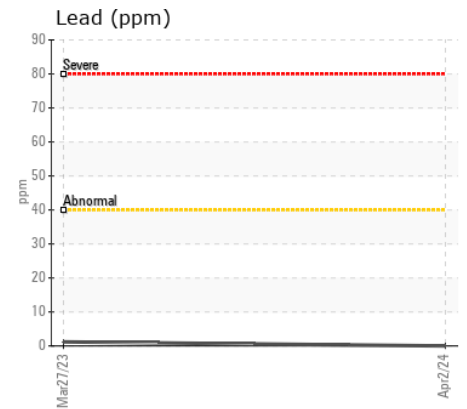
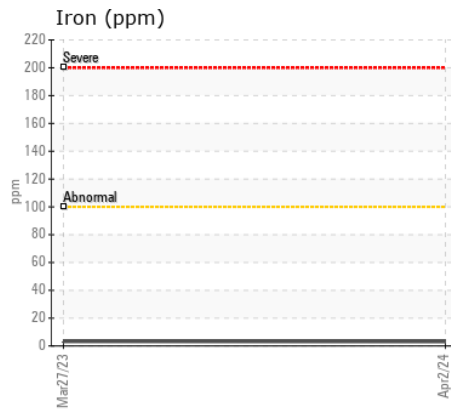
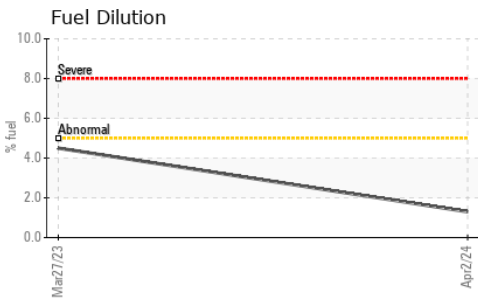
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	6	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Fuel	%	ASTM D7593*	>5	<b>1.3</b>	▲ 4.5	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.3</b>	5.9	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.3</b>	21.6	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>158	<b>2</b>	2	---
Boron	ppm	ASTM D5185(m)	250	<b>188</b>	193	---
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	100	<b>56</b>	53	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	450	<b>473</b>	413	---
Calcium	ppm	ASTM D5185(m)	3000	<b>1615</b>	1611	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>935</b>	965	---
Zinc	ppm	ASTM D5185(m)	1350	<b>1070</b>	1038	---
Sulfur	ppm	ASTM D5185(m)	4250	<b>2570</b>	2597	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.2</b>	18.0	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>12.1</b>	▲ 11.1	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : CU0022880 **Received** : 29 Apr 2024  
**Lab Number** : 02631898 **Tested** : 01 May 2024  
**Unique Number** : 5773051 **Diagnosed** : 01 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel )

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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.