



# OIL ANALYSIS REPORT

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

Area  
**[25093]**  
 Machine Id  
**22-112**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you check for visible metal particles in the oil. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. We suspect that the abnormal contaminant(s) is the result of incorrect sampling technique. DISCLAIMER: Interpretation of results is based on the sample as received from the customer. The condition of the sample and the method of sampling cannot be verified.

## WEAR

Light concentration of visible metal present.

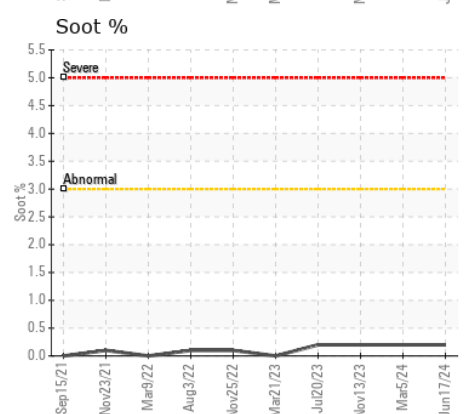
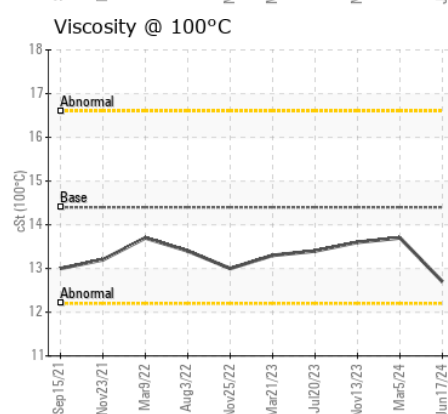
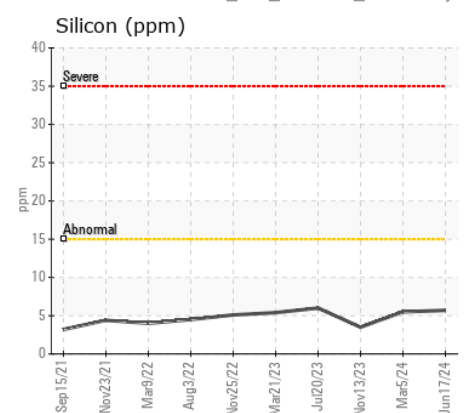
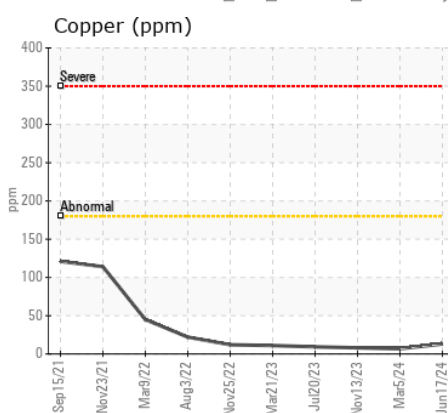
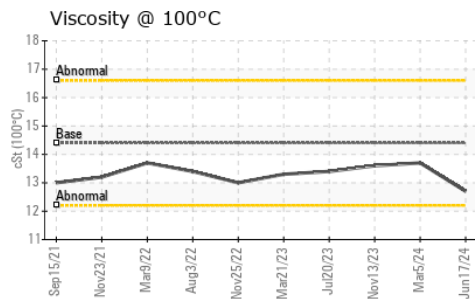
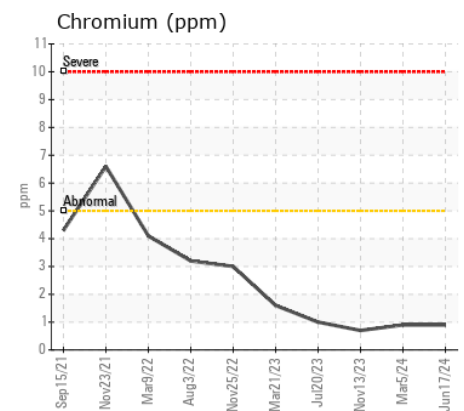
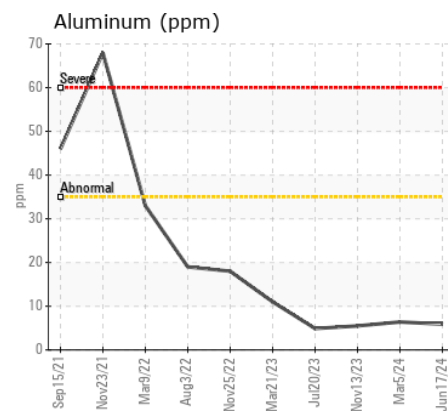
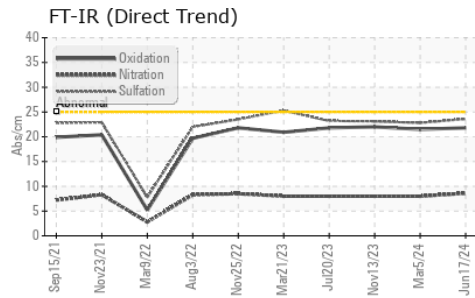
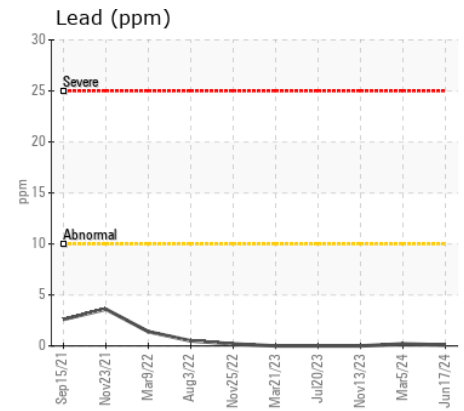
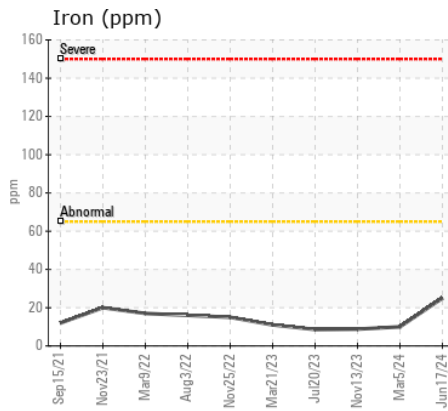
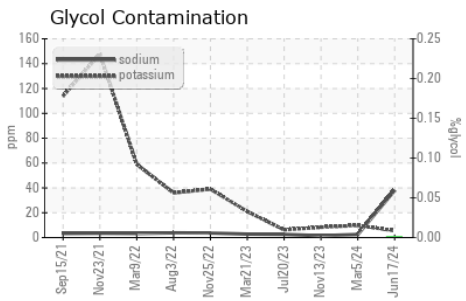
## CONTAMINATION

Light concentration of visible dirt/debris present in the oil.

## FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0941265</b>	WC0842843	WC0876538
Sample Date		Client Info		<b>17 Jun 2024</b>	05 Mar 2024	13 Nov 2023
Machine Age	kms	Client Info		<b>86756</b>	5559	67028
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>65	<b>25</b>	10	9
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>35	<b>6</b>	6	6
Lead	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m)	>180	<b>13</b>	7	8
Tin	ppm	ASTM D5185(m)	>8	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>▲ LIGHT</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silicon	ppm	ASTM D5185(m)	>15	<b>6</b>	6	4
Potassium	ppm	ASTM D5185(m)	>20	<b>6</b>	10	8
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	ASTM D7922*		<b>0.0</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.2</b>	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.6</b>	8.0	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.6</b>	22.8	23.1
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>▲ LIGHT</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>158	<b>38</b>	2	2
Boron	ppm	ASTM D5185(m)	250	<b>55</b>	36	31
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	<b>45</b>	41	41
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	450	<b>413</b>	512	505
Calcium	ppm	ASTM D5185(m)	3000	<b>1555</b>	1734	1698
Phosphorus	ppm	ASTM D5185(m)	1150	<b>704</b>	752	716
Zinc	ppm	ASTM D5185(m)	1350	<b>824</b>	870	860
Sulfur	ppm	ASTM D5185(m)	4250	<b>2235</b>	2220	1954
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>21.8</b>	21.5	22.0
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>12.7</b>	13.7	13.6



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

**Sample No.** : WC0941265

**Lab Number** : 02643069

**Unique Number** : 5800608

**Test Package** : MOB 1 ( Additional Tests: Bottom, BottomAnalysis, FilterPatch, Glycol, Visual

**Received** : 20 Jun 2024

**Tested** : 20 Jun 2024

**Diagnosed** : 21 Jun 2024 - Kevin Marson

**OX FLEET CARE**

466 HIGHWAY 52

DUNDAS, ON

CA L9H 5E2

Contact: Robert Hughes

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T: (289)683-6037

F:

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.