



# OIL ANALYSIS REPORT

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

Area

[24483]

Machine Id

15-42

Component

Diesel Engine

Fluid

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

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0895416</b>	WC0876528	WC0842897
Sample Date		Client Info		<b>25 Apr 2024</b>	08 Dec 2023	07 Sep 2023
Machine Age	kms	Client Info		<b>763584</b>	746068	732245
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>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	<b>13</b>	14	19
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>3</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	<b>5</b>	5	11
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	1	0
Copper	ppm	ASTM D5185(m)	>30	<b>10</b>	5	7
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

## CONTAMINATION

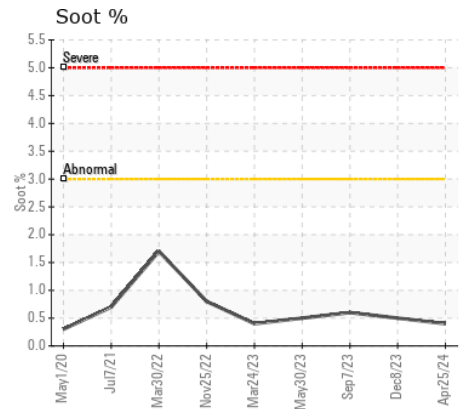
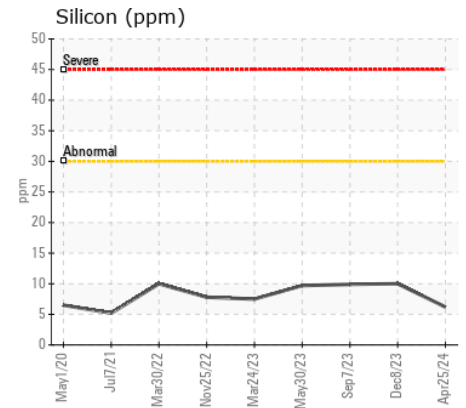
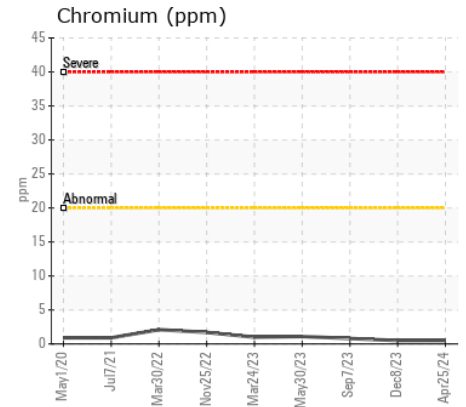
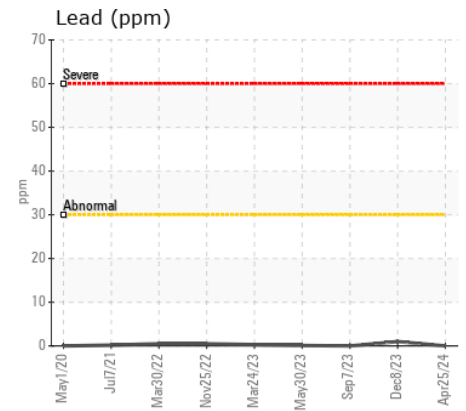
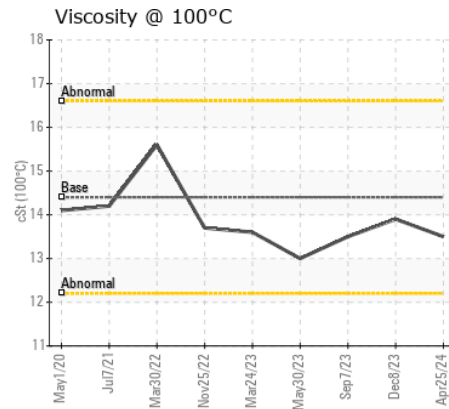
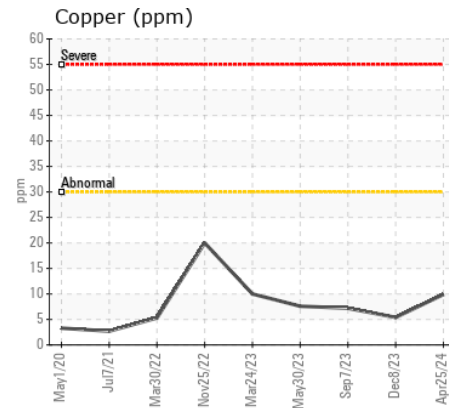
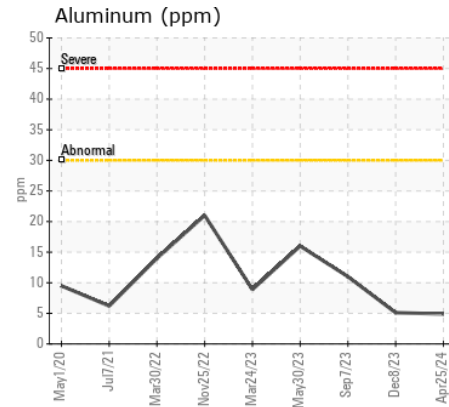
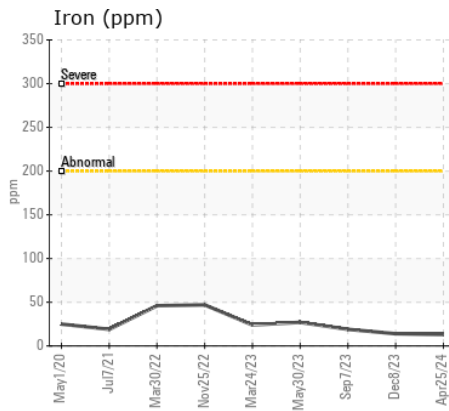
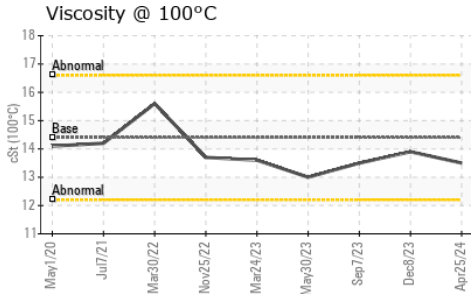
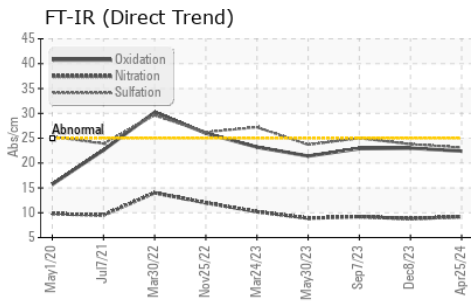
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>6</b>	10	10
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	<1	2
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		WC Method		<b>NEG</b>	0.0	0.0
Soot %	%	ASTM D7844*	>3	<b>0.4</b>	0.5	0.6
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.2</b>	8.8	9.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.1</b>	23.8	25.0
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>VLITE</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

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>158	<b>10</b>	28	98
Boron	ppm	ASTM D5185(m)	250	<b>38</b>	31	27
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>38</b>	41	41
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>491</b>	506	516
Calcium	ppm	ASTM D5185(m)	3000	<b>1702</b>	1708	1667
Phosphorus	ppm	ASTM D5185(m)	1150	<b>748</b>	725	773
Zinc	ppm	ASTM D5185(m)	1350	<b>878</b>	873	873
Sulfur	ppm	ASTM D5185(m)	4250	<b>2149</b>	2003	1973
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>22.4</b>	23.0	22.9
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>13.5</b>	13.9	13.5



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0895416 **Received** : 30 Apr 2024  
**Lab Number** : 02632304 **Tested** : 30 Apr 2024  
**Unique Number** : 5773457 **Diagnosed** : 30 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**OX FLEET CARE**  
 466 HIGHWAY 52  
 DUNDAS, ON  
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 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.