



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[24890]
 Machine Id
18-82
 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		WC0941298	WC0895495	WC0842915
Sample Date		Client Info		30 May 2024	05 Feb 2024	21 Sep 2023
Machine Age	hrs	Client Info		8979	118840	170699
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>65	13	72	15
Chromium	ppm	ASTM D5185(m)	>5	<1	2	1
Nickel	ppm	ASTM D5185(m)	>3	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>5	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>35	13	27	14
Lead	ppm	ASTM D5185(m)	>10	0	2	<1
Copper	ppm	ASTM D5185(m)	>180	3	64	9
Tin	ppm	ASTM D5185(m)	>8	0	2	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

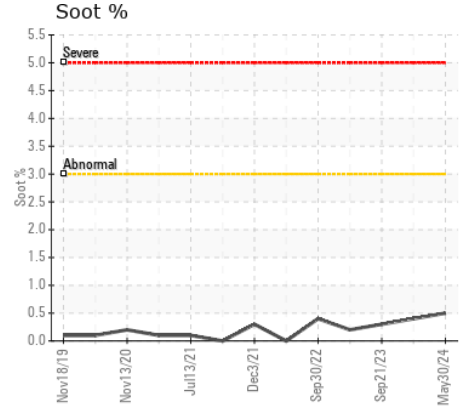
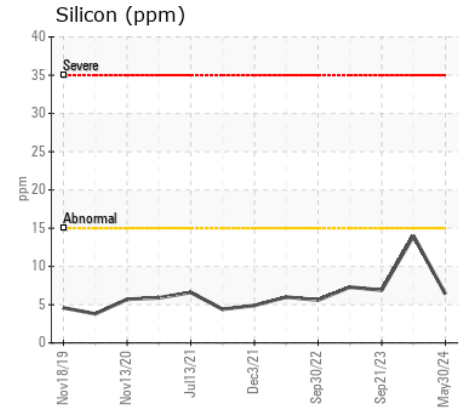
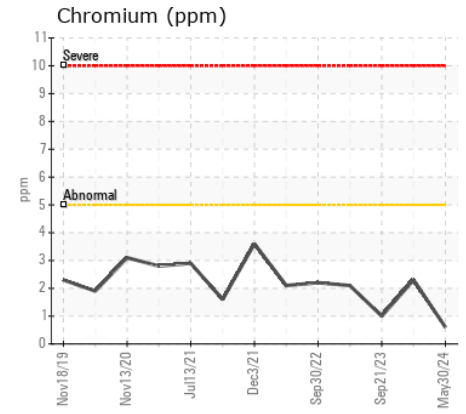
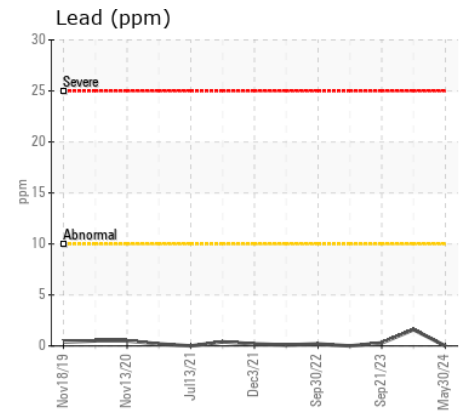
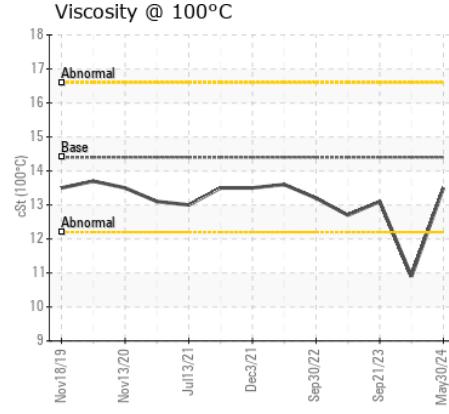
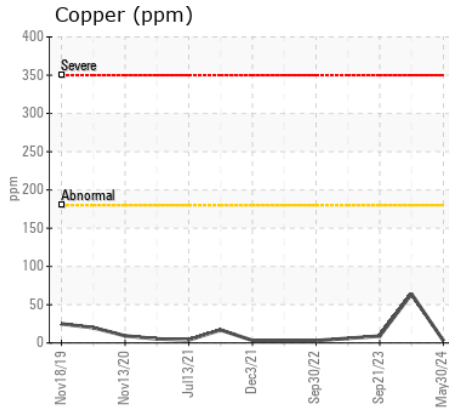
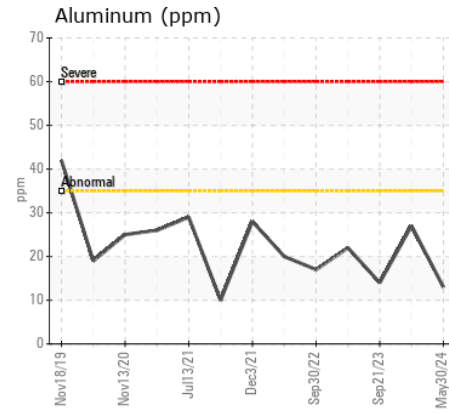
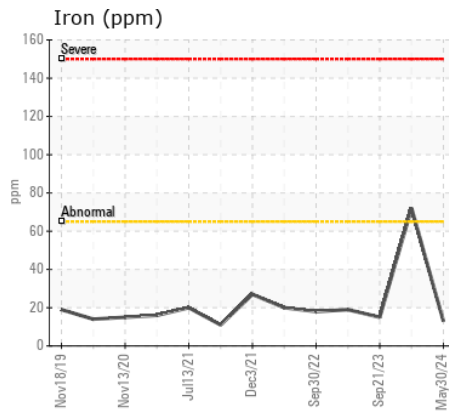
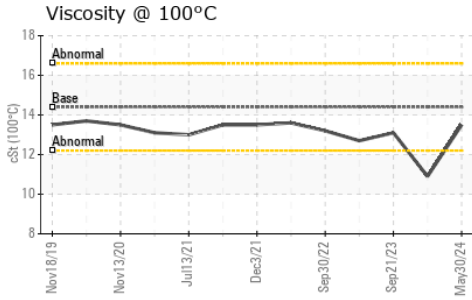
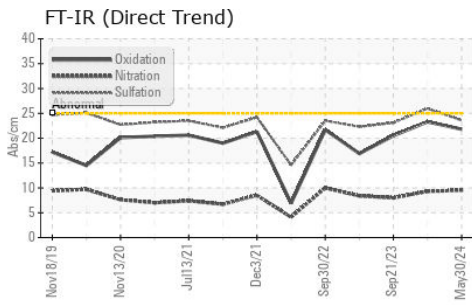
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	6	14	7
Potassium	ppm	ASTM D5185(m)	>20	4	▲ 62	9
Fuel		WC Method	>3.0	<1.0	▲ 1.8	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	▲ 0.011	0.0
Soot %	%	ASTM D7844*	>3	0.5	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	9.5	9.3	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.6	26.0	23.1
Emulsified Water	scalar	Visual*	>0.2	NEG	▲ .2%	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>158	9	18	99
Boron	ppm	ASTM D5185(m)	250	35	71	37
Barium	ppm	ASTM D5185(m)	10	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	100	38	31	41
Manganese	ppm	ASTM D5185(m)		<1	5	0
Magnesium	ppm	ASTM D5185(m)	450	495	351	495
Calcium	ppm	ASTM D5185(m)	3000	1722	1176	1673
Phosphorus	ppm	ASTM D5185(m)	1150	760	794	754
Zinc	ppm	ASTM D5185(m)	1350	871	599	863
Sulfur	ppm	ASTM D5185(m)	4250	2110	5388	2058
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.8	23.3	20.5
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.5	▲ 10.9	13.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0941298
Lab Number : 02639332
Unique Number : 5788494
Test Package : MOB 1

Received : 03 Jun 2024
Tested : 03 Jun 2024
Diagnosed : 03 Jun 2024 - Wes Davis

OX FLEET CARE
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 DUNDAS, ON
 CA L9H 5E2

Contact: Robert Hughes
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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.