



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
51936
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0844351	WC0879075	WC0864011
Sample Date		Client Info		20 Feb 2024	18 Dec 2023	24 Oct 2023
Machine Age	mls	Client Info		347567	314830	279545
Oil Age	mls	Client Info		32738	35285	31084
Filter Age	mls	Client Info		32738	35285	31084
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	29	23	16
Chromium	ppm	ASTM D5185(m)	>20	2	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	8	8	5
Lead	ppm	ASTM D5185(m)	>40	2	3	2
Copper	ppm	ASTM D5185(m)	>330	2	2	2
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

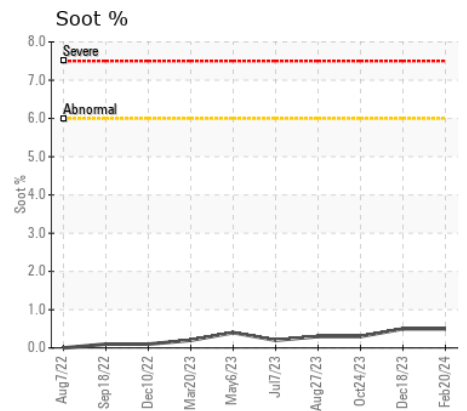
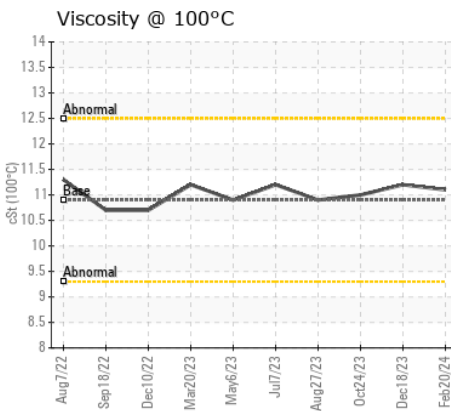
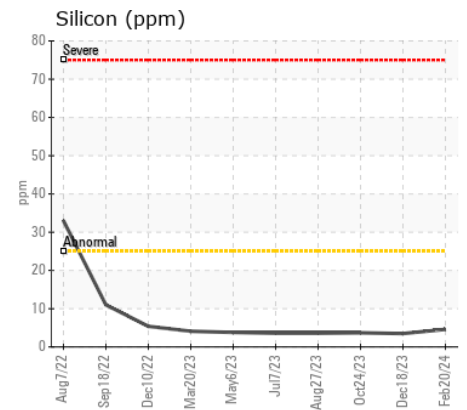
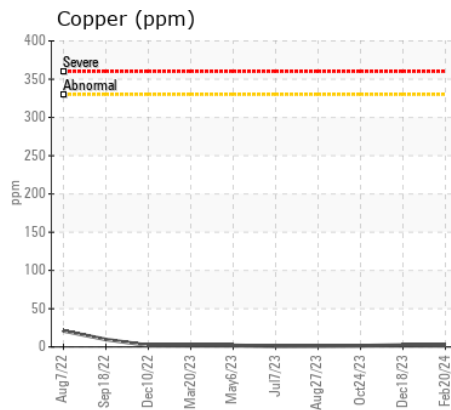
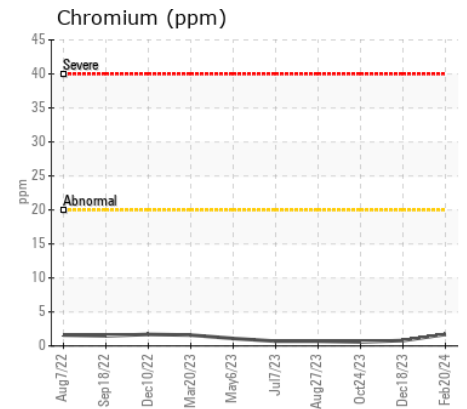
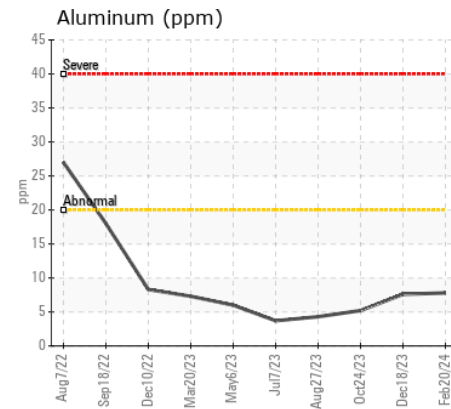
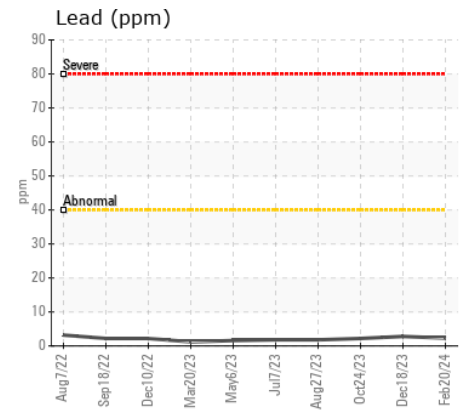
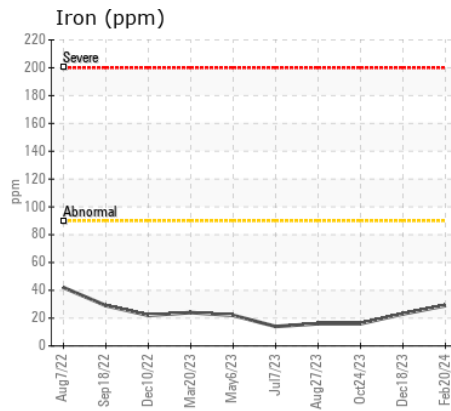
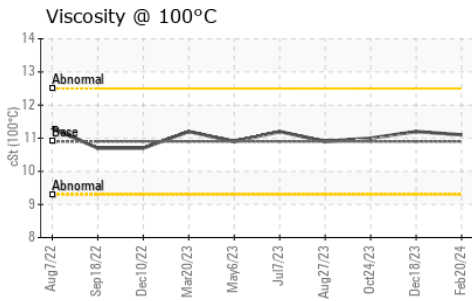
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	4	4
Potassium	ppm	ASTM D5185(m)	>20	6	6	4
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.5	0.5	0.3
Nitration	Abs/cm	ASTM D7624*	>20	11.0	9.6	9.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.8	21.4	20.4
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		2	2	2
Boron	ppm	ASTM D5185(m)	250	5	4	5
Barium	ppm	ASTM D5185(m)	10	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	100	61	63	65
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	450	988	1006	1032
Calcium	ppm	ASTM D5185(m)	3000	1081	1120	1157
Phosphorus	ppm	ASTM D5185(m)	1150	1027	1011	1037
Zinc	ppm	ASTM D5185(m)	1350	1217	1248	1291
Sulfur	ppm	ASTM D5185(m)	4250	2553	2355	2521
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.5	17.9	16.8
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	11.1	11.2	11.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0844351 **Received** : 29 Feb 2024
Lab Number : 02618910 **Tested** : 29 Feb 2024
Unique Number : 5736020 **Diagnosed** : 29 Feb 2024 - Wes Davis
Test Package : MOB 1

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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.