



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area
[23936]
 Machine Id
2091
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0895436	WC0842880	WC0745009
Sample Date		Client Info		26 Feb 2024	23 Oct 2023	24 Feb 2023
Machine Age	hrs	Client Info		9408	118746	104856
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	16	29	14
Chromium	ppm	ASTM D5185(m)	>20	2	4	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	9	34	13
Lead	ppm	ASTM D5185(m)	>40	<1	<1	1
Copper	ppm	ASTM D5185(m)	>330	24	12	12
Tin	ppm	ASTM D5185(m)	>15	<1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

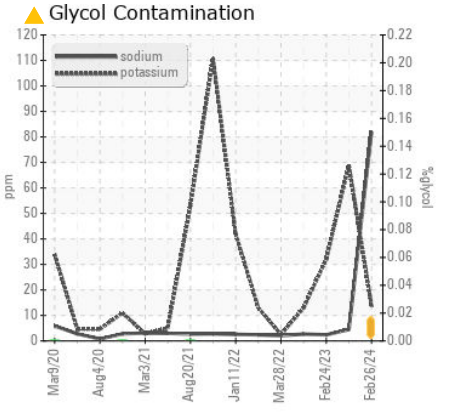
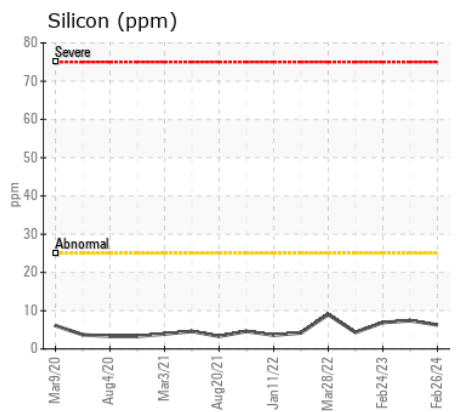
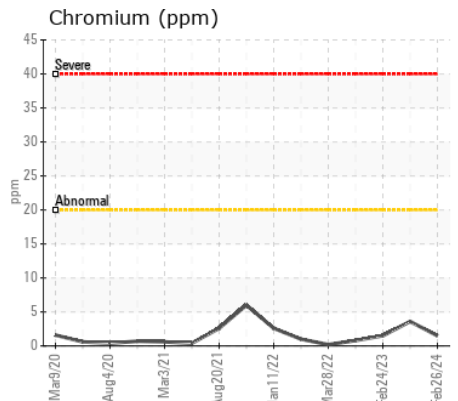
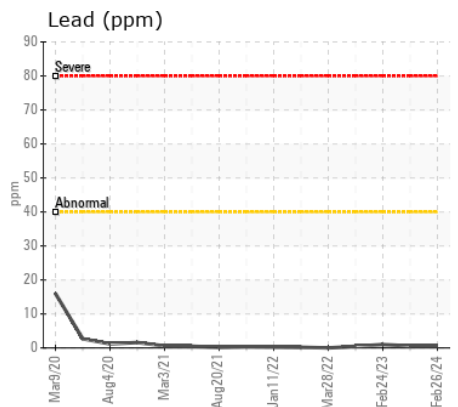
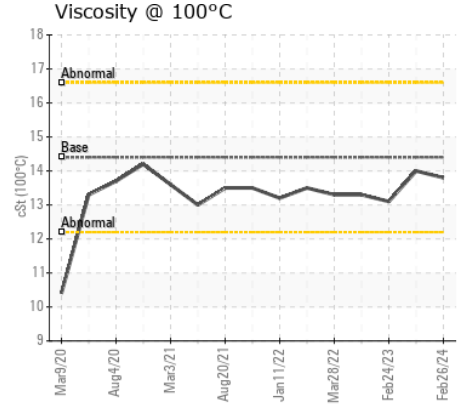
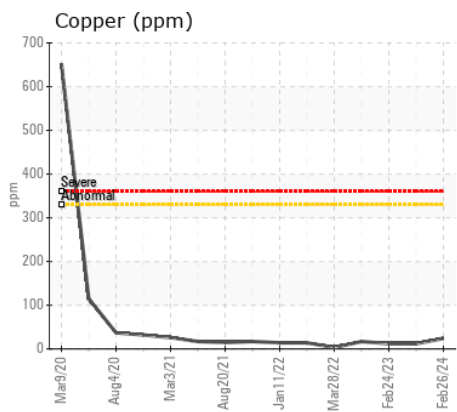
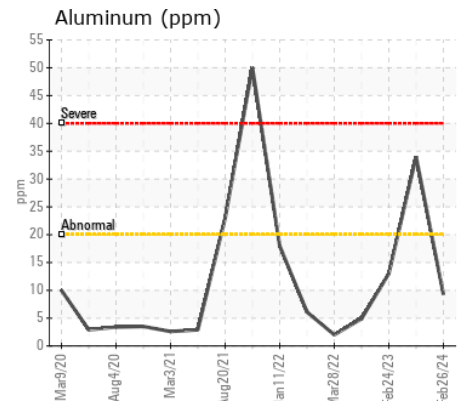
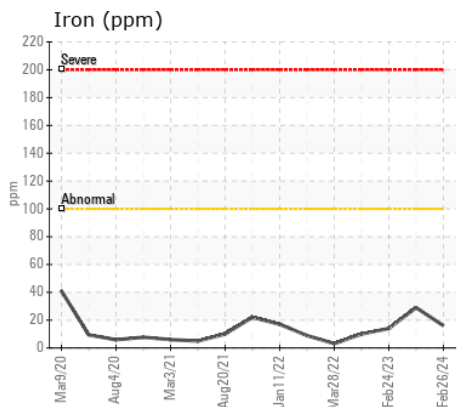
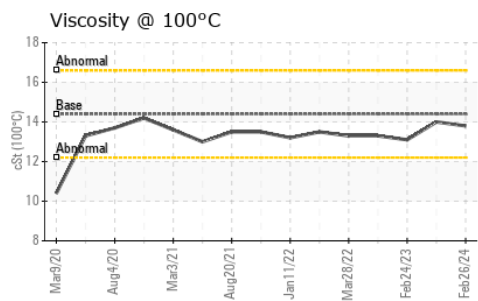
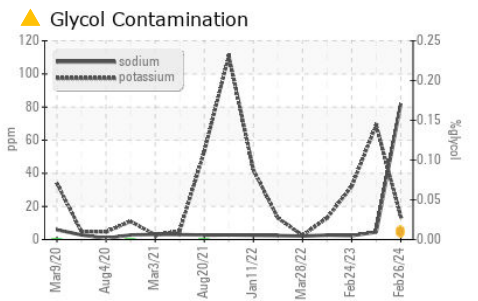
Test for glycol is positive. There is a light concentration of glycol present in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	7	7
Potassium	ppm	ASTM D5185(m)	>20	▲ 14	69	32
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		▲ 0.017	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.1	0.6	0.1
Nitration	Abs/cm	ASTM D7624*	>20	8.2	11.0	9.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.2	23.9	24.1
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)	>158	● 82	4	2
Boron	ppm	ASTM D5185(m)	250	37	21	28
Barium	ppm	ASTM D5185(m)	10	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	40	42	40
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	498	512	493
Calcium	ppm	ASTM D5185(m)	3000	1703	1755	1720
Phosphorus	ppm	ASTM D5185(m)	1150	704	691	768
Zinc	ppm	ASTM D5185(m)	1350	849	894	841
Sulfur	ppm	ASTM D5185(m)	4250	2017	1873	2221
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.2	25.6	21.4
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.8	14.0	13.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0895436 **Received** : 28 Feb 2024
Lab Number : 02618558 **Tested** : 28 Feb 2024
Unique Number : 5735668 **Diagnosed** : 28 Feb 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol)

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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.