



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2105
 Component
Rear Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0895804	WC0882990	WC0873865
Sample Date		Client Info		16 Jan 2024	14 Dec 2023	02 Nov 2023
Machine Age	hrs	Client Info		12338	11908	11322
Oil Age	hrs	Client Info		435	581	500
Filter Age	hrs	Client Info		435	581	500
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	ABNORMAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	8	11	11
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	1	2	2
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	2	2	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

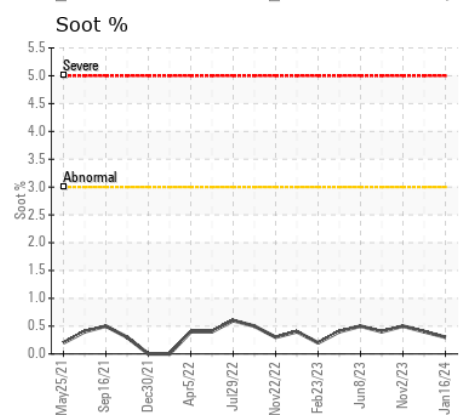
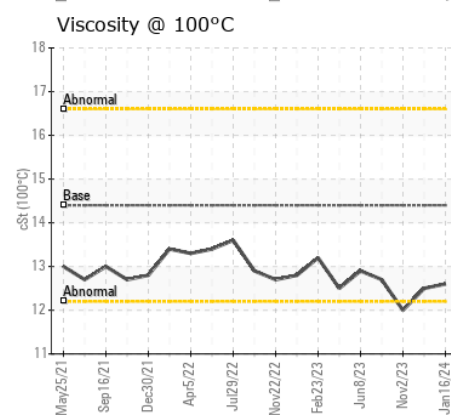
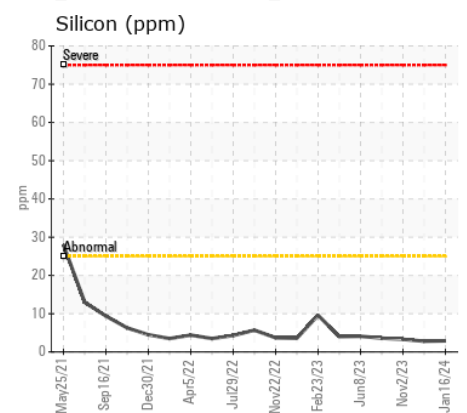
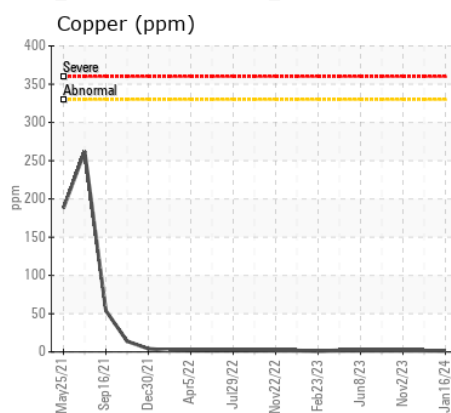
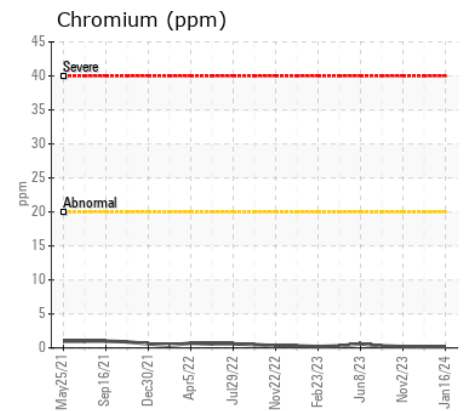
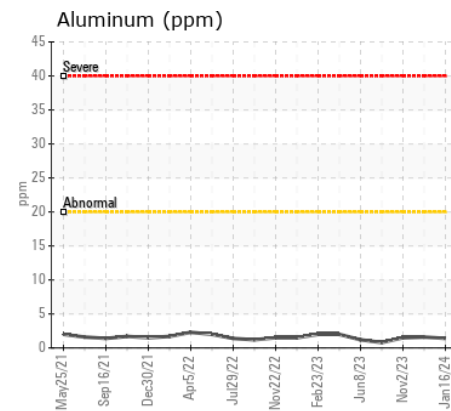
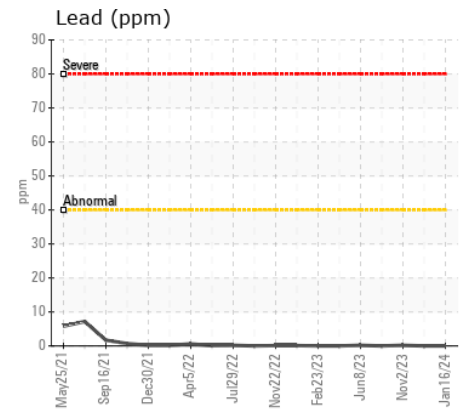
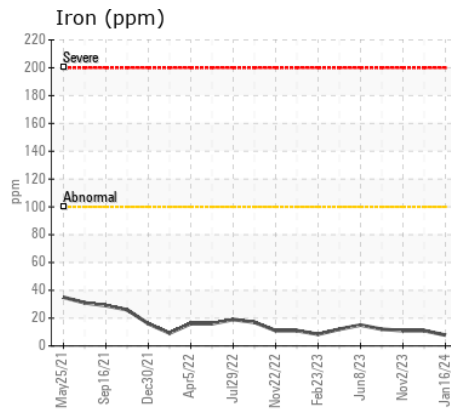
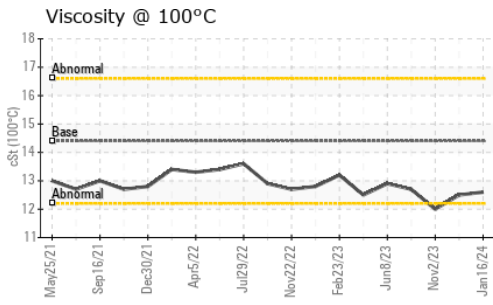
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	3	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Fuel		WC Method	>5	<1.0	▲ 2.4	▲ 3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.3	0.4	0.5
Nitration	Abs/cm	ASTM D7624*	>20	8.8	9.4	9.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.6	24.3	27.2
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)	>158	<1	2	2
Boron	ppm	ASTM D5185(m)	250	1	3	2
Barium	ppm	ASTM D5185(m)	10	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	56	59	58
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	450	915	948	916
Calcium	ppm	ASTM D5185(m)	3000	1183	1046	992
Phosphorus	ppm	ASTM D5185(m)	1150	1002	974	937
Zinc	ppm	ASTM D5185(m)	1350	1166	1156	1137
Sulfur	ppm	ASTM D5185(m)	4250	2976	2620	2409
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.3	25.9	31.5
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	12.6	▲ 12.5	12.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0895804
Lab Number : 02610104
Unique Number : 5711190
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.