OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1689
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.

WEAR

All component wear rates are normal.

CONTAMINATION

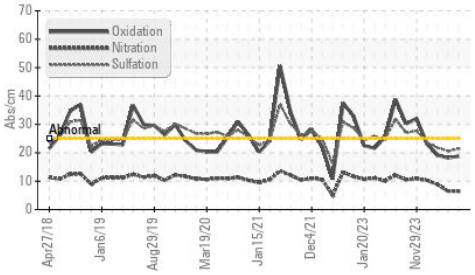
There is no indication of any contamination in the oil.

FLUID CONDITION

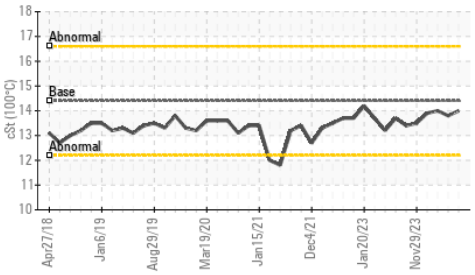
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0938912	WC0932519	WC0905426
Sample Date		Client Info		19 May 2024	24 Apr 2024	07 Feb 2024
Machine Age	hrs	Client Info		29294	29115	28628
Oil Age	hrs	Client Info		180	487	326
Filter Age	hrs	Client Info		180	0	326
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	4	6	10
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	2	2
Lead	ppm	ASTM D5185(m)	>40	<1	0	0
Copper	ppm	ASTM D5185(m)	>330	2	3	1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	11	5	3
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0.4
Nitration	Abs/cm	ASTM D7624*	>20	6.4	6.5	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.4	20.6	21.7
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>158	<1	1	<1
Boron	ppm	ASTM D5185(m)	250	2	2	1
Barium	ppm	ASTM D5185(m)	10	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	100	57	56	57
Manganese	ppm	ASTM D5185(m)		<1	2	0
Magnesium	ppm	ASTM D5185(m)	450	947	937	946
Calcium	ppm	ASTM D5185(m)	3000	1012	1032	1031
Phosphorus	ppm	ASTM D5185(m)	1150	984	979	993
Zinc	ppm	ASTM D5185(m)	1350	1157	1160	1162
Sulfur	ppm	ASTM D5185(m)	4250	2528	2516	2620
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.8	18.2	19.1
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.0	13.8	14.0

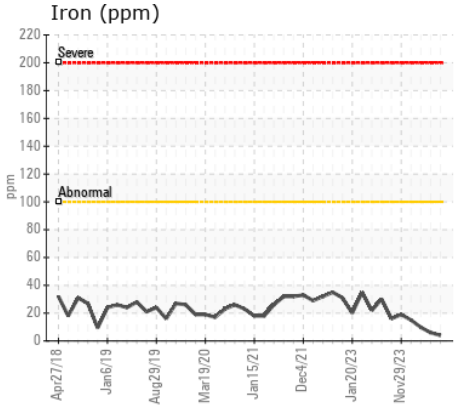
FT-IR (Direct Trend)



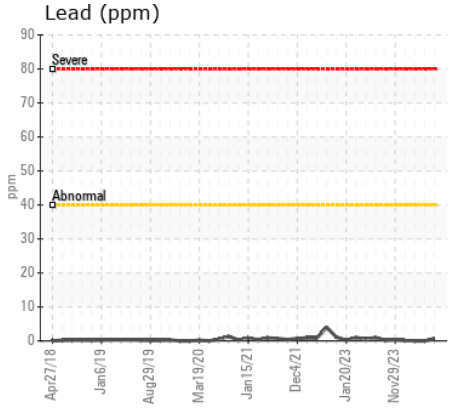
Viscosity @ 100°C



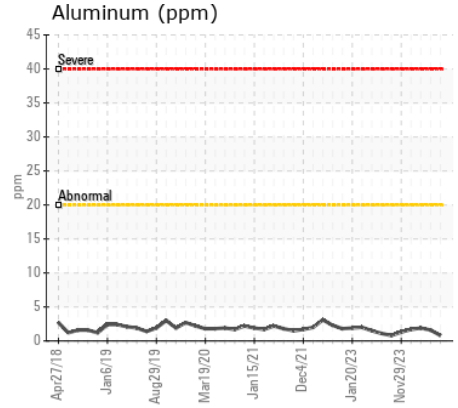
Iron (ppm)



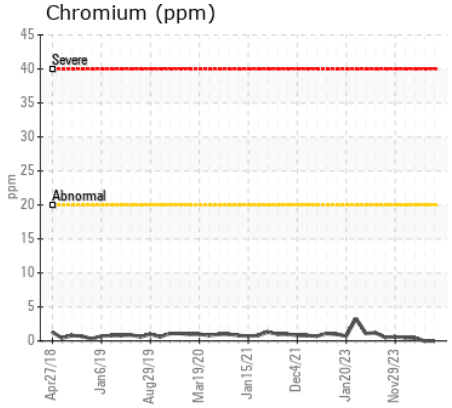
Lead (ppm)



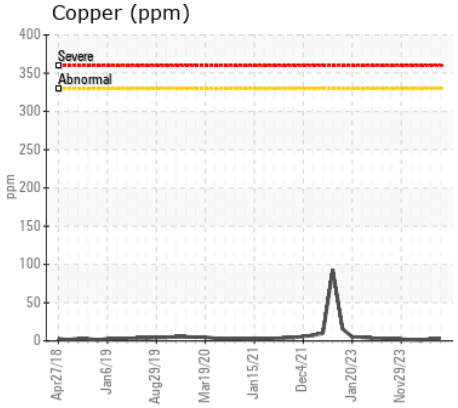
Aluminum (ppm)



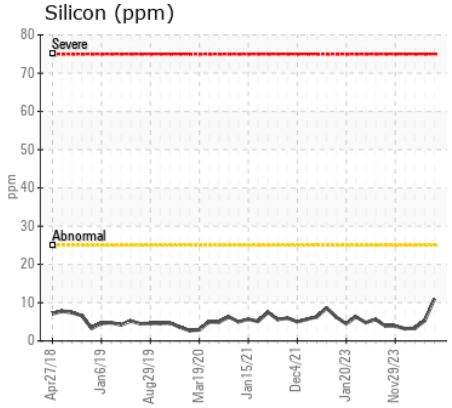
Chromium (ppm)



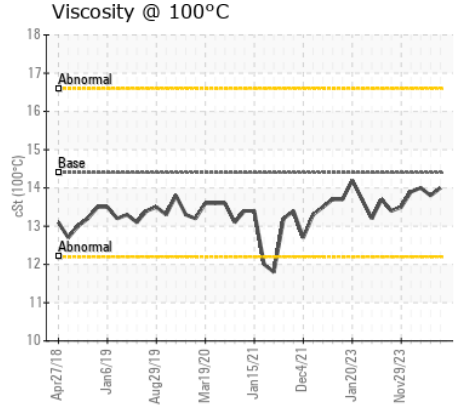
Copper (ppm)



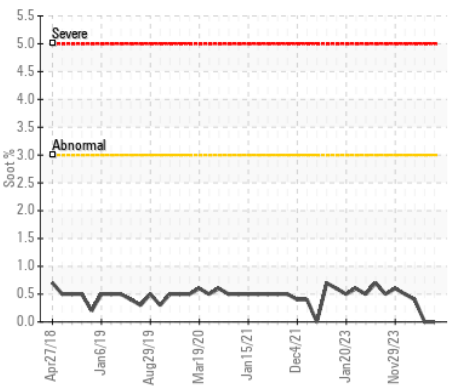
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0938912
Lab Number : 02637636
Unique Number : 5786798
Test Package : MOB 1

Received : 27 May 2024
Tested : 27 May 2024
Diagnosed : 27 May 2024 - Wes Davis

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.

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