



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
722003
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0102876	GFL0078495	GFL0071323
Sample Date		Client Info		08 Jan 2024	24 Jul 2023	14 Feb 2023
Machine Age	hrs	Client Info		28377	27235	26275
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	5	5	5
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	3
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	2
Tin	ppm	ASTM D5185(m)	>15	<1	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

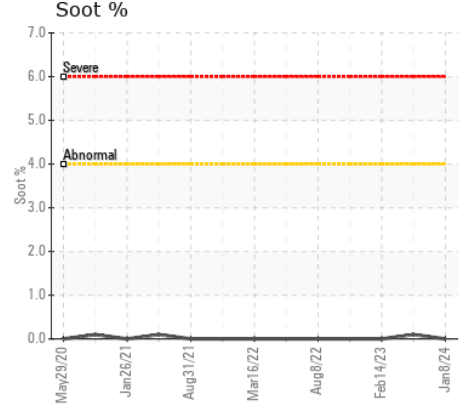
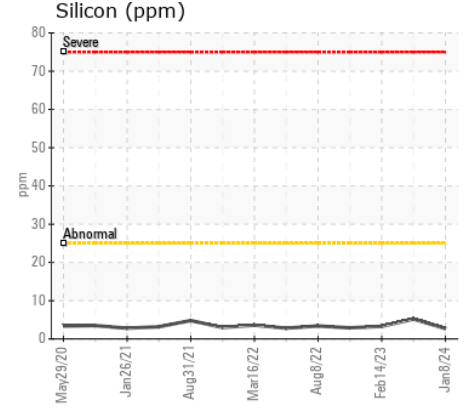
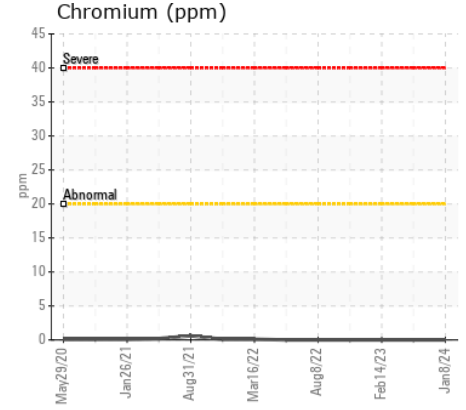
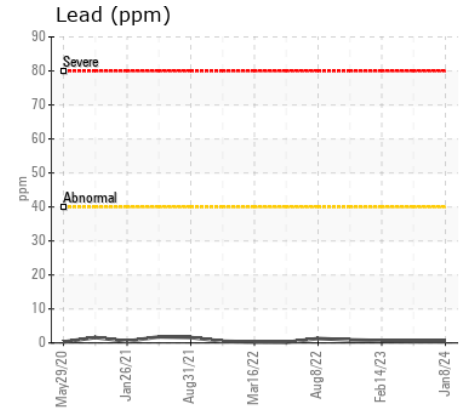
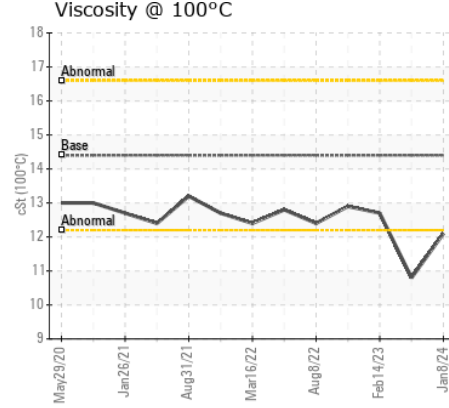
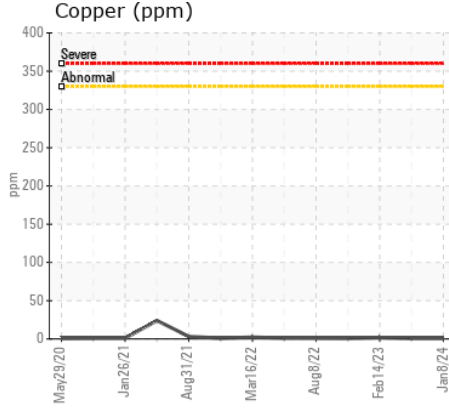
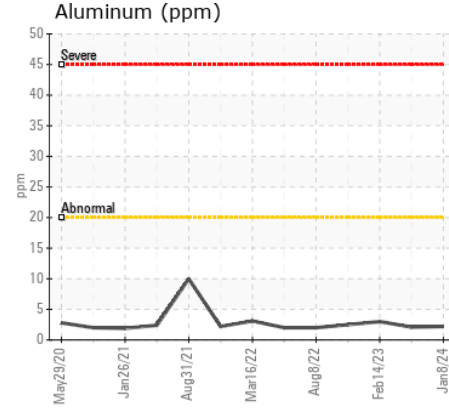
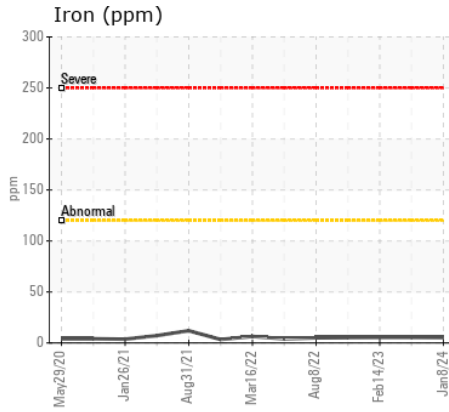
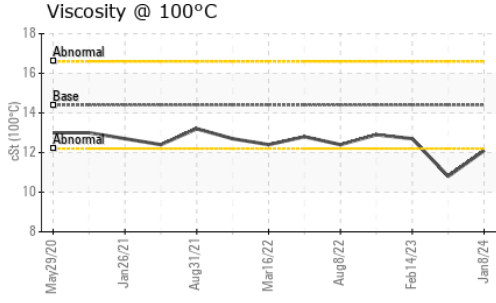
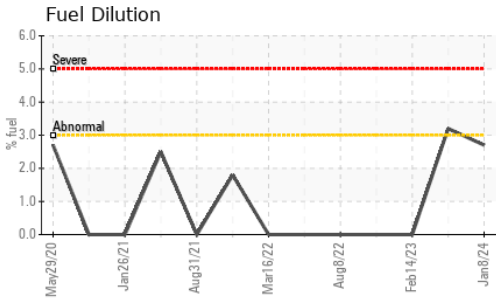
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	5	3
Potassium	ppm	ASTM D5185(m)	>20	5	<1	<1
Fuel	%	ASTM D7593*	>3.0	2.7	▲ 3.2	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	0	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	10.0	9.7	9.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.5	21.6	21.1
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	3	2	3
Boron	ppm	ASTM D5185(m)	250	48	27	3
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	12	41	57
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	156	489	924
Calcium	ppm	ASTM D5185(m)	3000	1917	1611	1077
Phosphorus	ppm	ASTM D5185(m)	1150	911	790	1031
Zinc	ppm	ASTM D5185(m)	1350	1096	869	1153
Sulfur	ppm	ASTM D5185(m)	4250	2853	2059	2533
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.3	21.6	16.5
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	12.1	▲ 10.8	12.7



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 246 - Windsor**
Sample No. : GFL0102876 **Received** : 10 Jan 2024
Lab Number : 02607663 **Diagnosed** : 11 Jan 2024
Unique Number : 5708749 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel)

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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