



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
OR129
Component
Diesel Engine
Fluid
SAE 0W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. 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		GFL0105934	GFL0038116	---
Sample Date		Client Info		04 Jan 2024	23 Jan 2022	---
Machine Age	hrs	Client Info		0	4645	---
Oil Age	hrs	Client Info		0	600	---
Filter Age	hrs	Client Info		0	600	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	11	3	---
Chromium	ppm	ASTM D5185(m)	>20	2	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	2	2	---
Lead	ppm	ASTM D5185(m)	>40	3	1	---
Copper	ppm	ASTM D5185(m)	>330	5	3	---
Tin	ppm	ASTM D5185(m)	>15	2	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

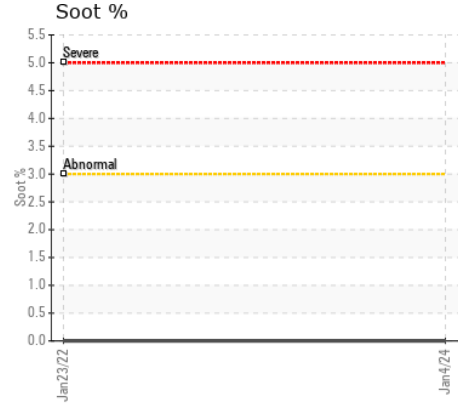
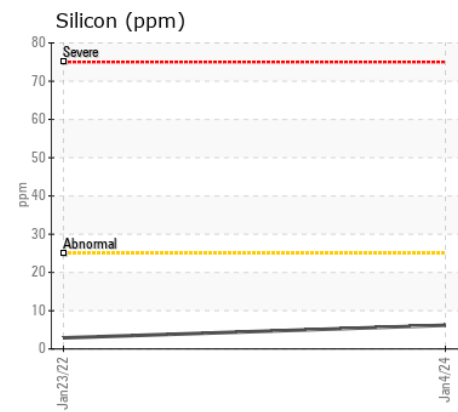
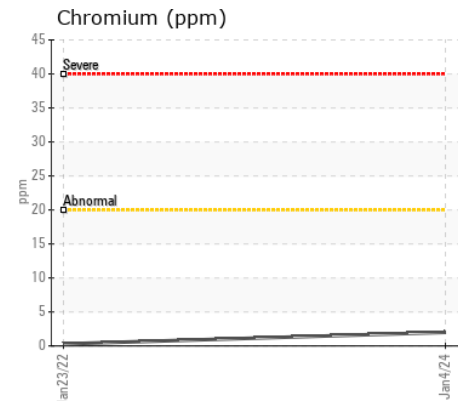
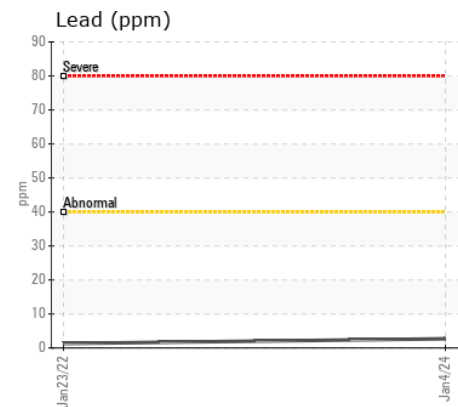
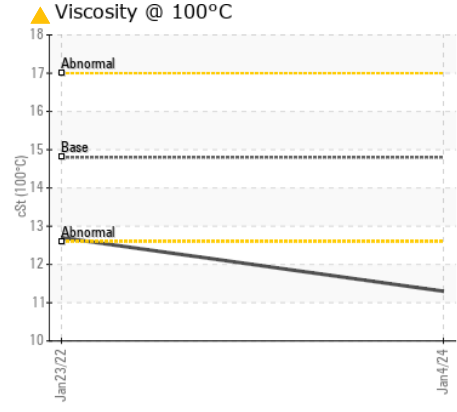
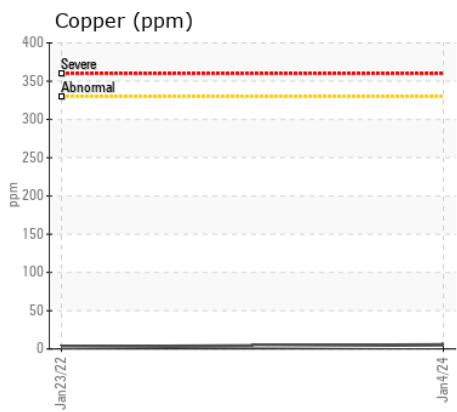
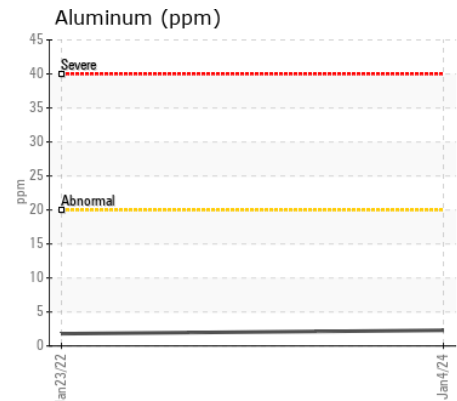
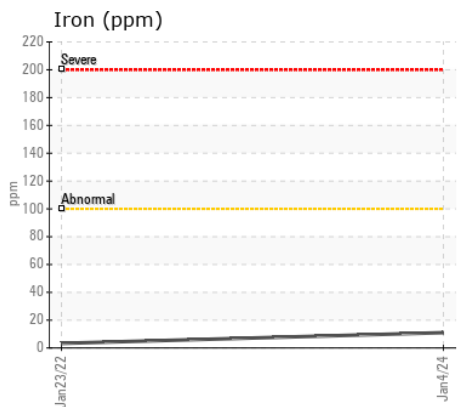
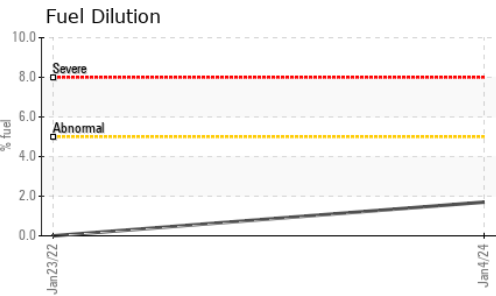
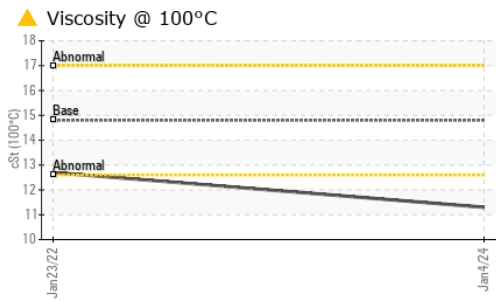
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	3	---
Potassium	ppm	ASTM D5185(m)	>20	2	<1	---
Fuel	%	ASTM D7593*	>5	1.7	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	7.6	2.0	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.8	7.0	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	2	---
Boron	ppm	ASTM D5185(m)		2	1	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		57	48	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		948	835	---
Calcium	ppm	ASTM D5185(m)		1067	1176	---
Phosphorus	ppm	ASTM D5185(m)		1016	1038	---
Zinc	ppm	ASTM D5185(m)		1187	1178	---
Sulfur	ppm	ASTM D5185(m)		2825	2757	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.4	4.6	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	▲ 11.3	12.7	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 555 - Slave Lake**
Sample No. : GFL0105934 **Received** : 05 Jan 2024 240 Balsam Rd NE, P.O. 362
Lab Number : 02606694 **Diagnosed** : 08 Jan 2024 Slave Lake, AB
Unique Number : 5707780 **Diagnostician** : Kevin Marson CA T0G 2A0
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel) Contact: William Barker
 wbarker@gflenv.com

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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