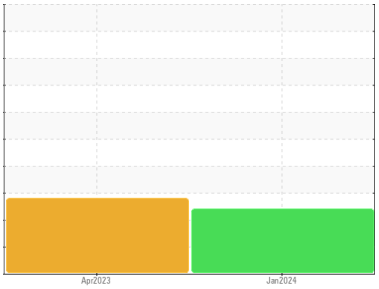
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
825076
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation
Nous avons pris note que la vidange d`huile a été effectuée au moment de l`échantillonnage. Nous vous recommandons d`échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear
Usure de piston.

Contamination
Il y a indication d'une présence anormale de sulfatation. Légère concentration de carbone/suie dans l`huile.

Fluid Condition
La viscosité de l`huile est supérieure à la normale. La viscosité de l'échantillon se situe dans la portée de l'SAE 40; nous vous conseillons de vérifier. l`huile n'est plus en état de service en raison d'une usure anomale et/ou sévère.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0100793**	GFL0079071	---
Sample Date		Client Info		**15 Jan 2024**	18 Apr 2023	---
Machine Age	hrs	Client Info		**12579**	11869	---
Oil Age	hrs	Client Info		**386**	0	---
Oil Changed		Client Info		**Changed**	N/A	---
Sample Status				**ABNORMAL**	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	**<1.0**	<1.0	---
Water		WC Method	>0.2	**NEG**	NEG	---
Glycol		WC Method		**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	**96**	▲ 111	---
Chromium	ppm	ASTM D5185(m)	>20	**3**	3	---
Nickel	ppm	ASTM D5185(m)	>4	**1**	2	---
Titanium	ppm	ASTM D5185(m)		**0**	<1	---
Silver	ppm	ASTM D5185(m)	>3	**0**	0	---
Aluminum	ppm	ASTM D5185(m)	>20	▲ **44**	▲ 31	---
Lead	ppm	ASTM D5185(m)	>40	**7**	2	---
Copper	ppm	ASTM D5185(m)	>330	**4**	3	---
Tin	ppm	ASTM D5185(m)	>15	**<1**	<1	---
Antimony	ppm	ASTM D5185(m)		**<1**	<1	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	**70**	152	---
Barium	ppm	ASTM D5185(m)	10	**0**	0	---
Molybdenum	ppm	ASTM D5185(m)	100	**116**	111	---
Manganese	ppm	ASTM D5185(m)		**<1**	1	---
Magnesium	ppm	ASTM D5185(m)	450	**855**	832	---
Calcium	ppm	ASTM D5185(m)	3000	**1535**	1568	---
Phosphorus	ppm	ASTM D5185(m)	1150	**939**	932	---
Zinc	ppm	ASTM D5185(m)	1350	**1082**	1014	---
Sulfur	ppm	ASTM D5185(m)	4250	**2585**	2498	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**8**	19	---
Sodium	ppm	ASTM D5185(m)		**3**	5	---
Potassium	ppm	ASTM D5185(m)	>20	**2**	<1	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	▲ **4.1**	▲ 3.8	---
Nitration	Abs/cm	ASTM D7624*	>20	**16.3**	12.8	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	▲ **34.6**	31.4	---

OIL ANALYSIS REPORT

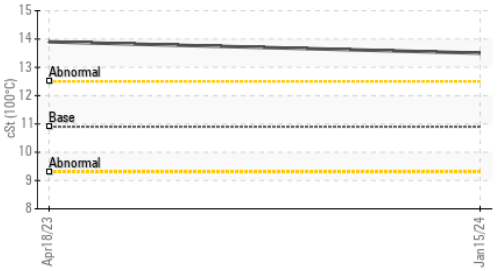
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**23.7**	20.0	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	---
Free Water	scalar	Visual*		**NEG**	NEG	---

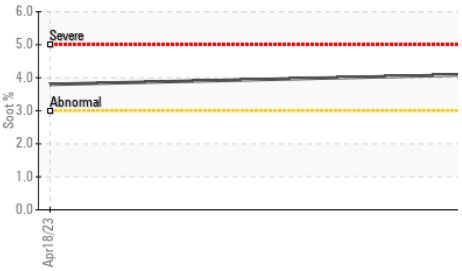
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	▲ **13.5**	▲ 13.9	---

GRAPHS

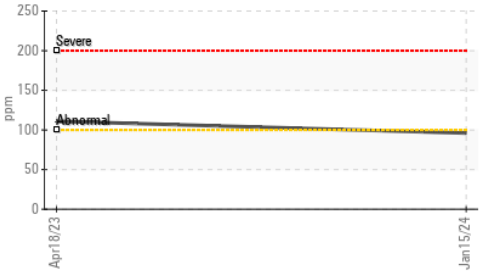
Viscosity @ 100°C



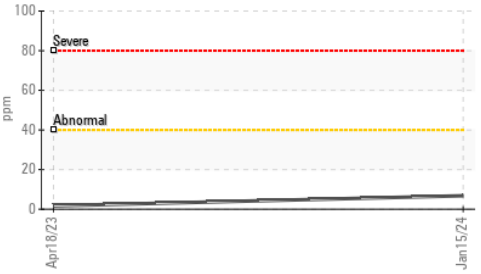
Soot %



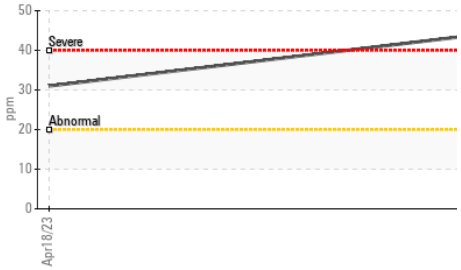
Iron (ppm)



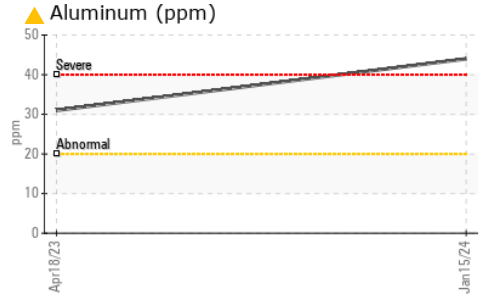
Lead (ppm)



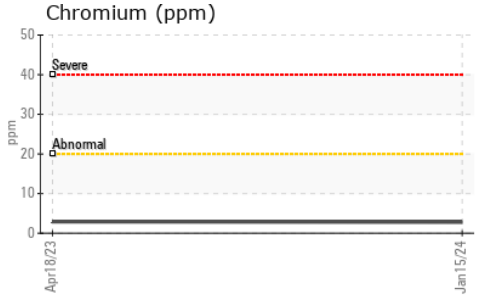
Aluminum (ppm)



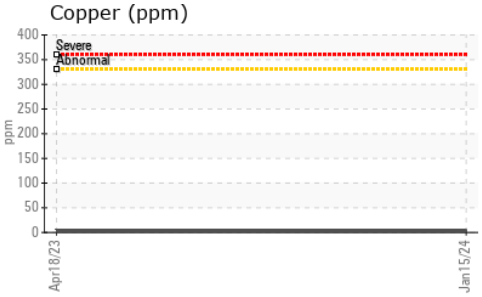
Aluminum (ppm)



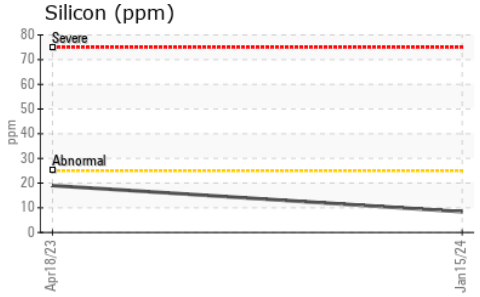
Chromium (ppm)



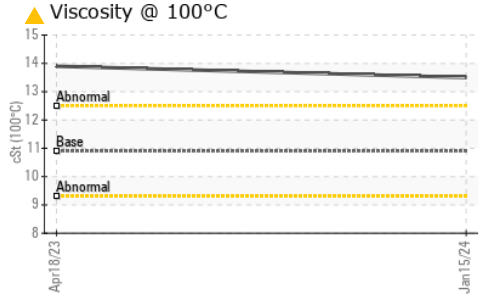
Copper (ppm)



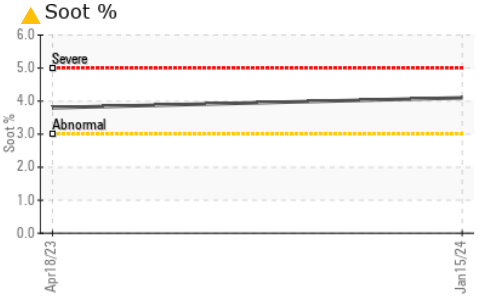
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100793 **Recieved** : 29 Jan 2024
Lab Number : 02611733 **Diagnosed** : 30 Jan 2024
Unique Number : 5720828 **Diagnostician** : Bill Quesnel
Test Package : MOB 1

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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