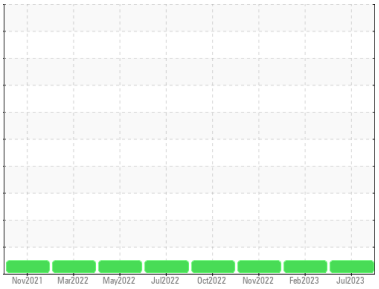
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
725002
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0078494**	GFL0071321	GFL0063885
Sample Date		Client Info		**24 Jul 2023**	07 Feb 2023	15 Nov 2022
Machine Age	hrs	Client Info		**22482**	22044	21354
Oil Age	hrs	Client Info		**0**	565	547
Oil Changed		Client Info		**N/A**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	<1.0	<1.0
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	**17**	14	11
Chromium	ppm	ASTM D5185(m)	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	**<1**	0	3
Titanium	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Silver	ppm	ASTM D5185(m)	>2	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>20	**2**	4	4
Lead	ppm	ASTM D5185(m)	>40	**1**	<1	2
Copper	ppm	ASTM D5185(m)	>330	**<1**	1	1
Tin	ppm	ASTM D5185(m)	>15	**<1**	<1	<1
Antimony	ppm	ASTM D5185(m)		**0**	<1	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	**38**	3	3
Barium	ppm	ASTM D5185(m)	10	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	100	**19**	58	57
Manganese	ppm	ASTM D5185(m)		**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	**260**	931	921
Calcium	ppm	ASTM D5185(m)	3000	**1801**	1112	1097
Phosphorus	ppm	ASTM D5185(m)	1150	**948**	1010	1004
Zinc	ppm	ASTM D5185(m)	1350	**1126**	1176	1160
Sulfur	ppm	ASTM D5185(m)	4250	**2540**	2358	2330
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**5**	4	5
Sodium	ppm	ASTM D5185(m)	>158	**6**	4	6
Potassium	ppm	ASTM D5185(m)	>20	**5**	<1	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	**0.9**	0.7	0.2
Nitration	Abs/cm	ASTM D7624*	>20	**8.7**	8.8	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	**25.9**	22.2	21.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**20.2**	16.1	18.4

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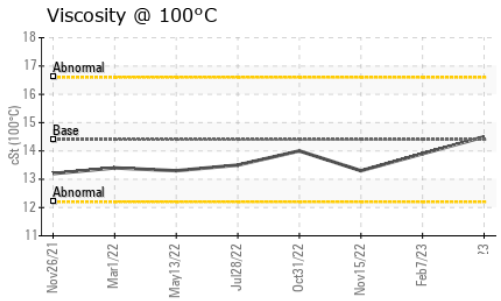
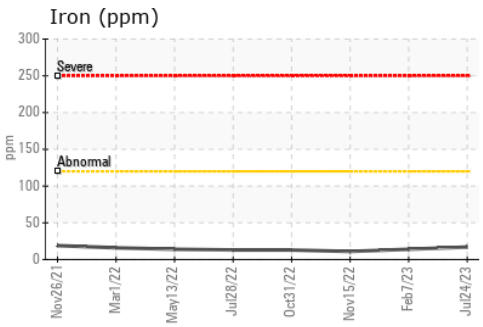
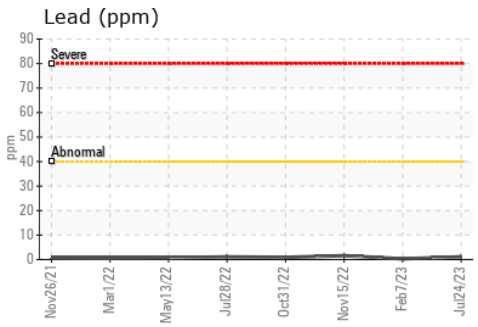


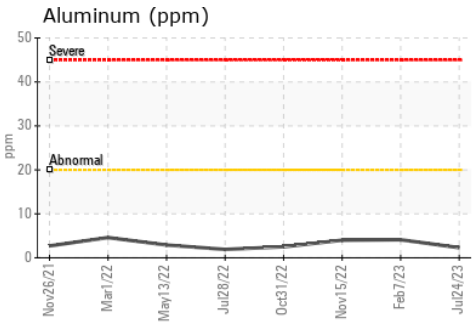
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

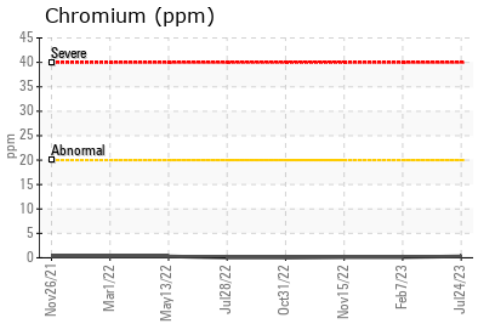
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	**14.5**	13.9	13.3

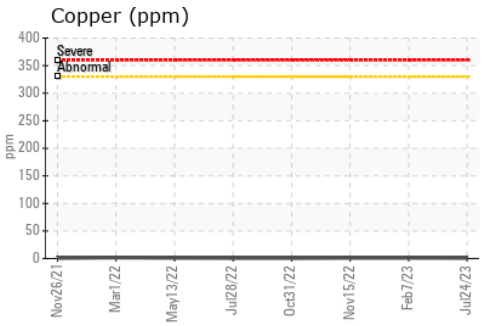
GRAPHS

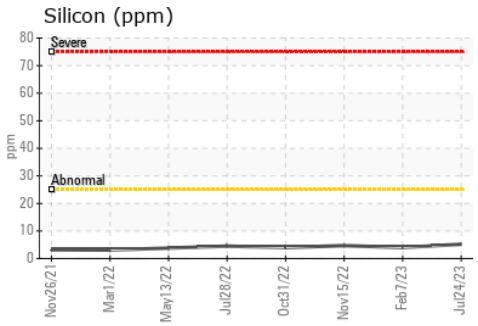


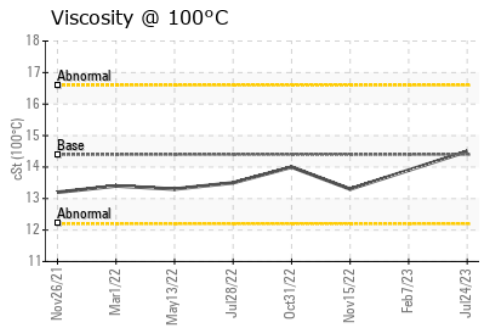


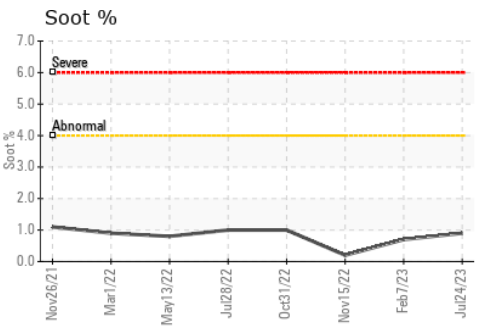












ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9	**GFL Environmental - 246 - Windsor**	
Sample No.	: GFL0078494	**Received**	: 25 Jul 2023
Lab Number	: 02571893	**Diagnosed**	: 25 Jul 2023
Unique Number	: 5616944	**Diagnostician**	: Wes Davis
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.