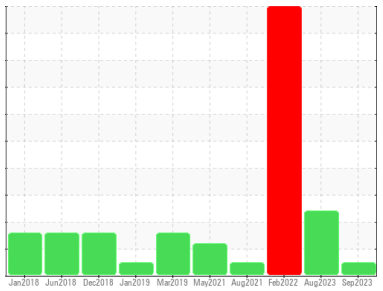
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
4522
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- LTR)

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		**GFL0090579**	GFL0090619	GFL0041433
Sample Date		Client Info		**01 Sep 2023**	21 Aug 2023	14 Feb 2022
Machine Age	hrs	Client Info		**15248**	15247	0
Oil Age	hrs	Client Info		**3**	0	0
Oil Changed		Client Info		**N/A**	Changed	Changed
Sample Status				**NORMAL**	ABNORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	<1.0	<1.0
Glycol		WC Method		**NEG**	0.0	⬢ >.70

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	**2**	14	5
Chromium	ppm	ASTM D5185(m)	>20	**0**	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	**<1**	▲ 8	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	0
Silver	ppm	ASTM D5185(m)	>2	**0**	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	**<1**	<1	2
Lead	ppm	ASTM D5185(m)	>40	**0**	<1	5
Copper	ppm	ASTM D5185(m)	>330	**<1**	7	64
Tin	ppm	ASTM D5185(m)	>15	**0**	1	<1
Antimony	ppm	ASTM D5185(m)		**0**	0	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	**16**	3	11
Barium	ppm	ASTM D5185(m)	0	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	50	**55**	57	165
Manganese	ppm	ASTM D5185(m)	0	**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	**888**	930	574
Calcium	ppm	ASTM D5185(m)	1050	**998**	1011	583
Phosphorus	ppm	ASTM D5185(m)	995	**981**	1018	667
Zinc	ppm	ASTM D5185(m)	1180	**1092**	1136	753
Sulfur	ppm	ASTM D5185(m)	2600	**2509**	2493	1716
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**6**	▲ 26	39
Sodium	ppm	ASTM D5185(m)		**2**	3	▲ 2460
Potassium	ppm	ASTM D5185(m)	>20	**0**	1	▲ 139

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**4.8**	9.1	13.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	**18.8**	20.9	0.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**13.2**	17.7	12.2

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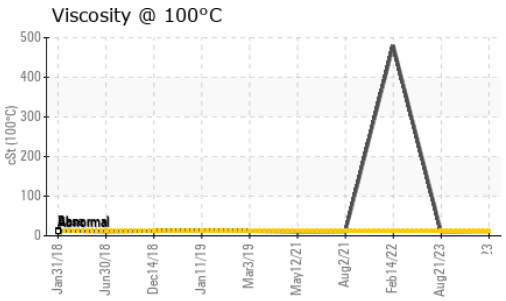
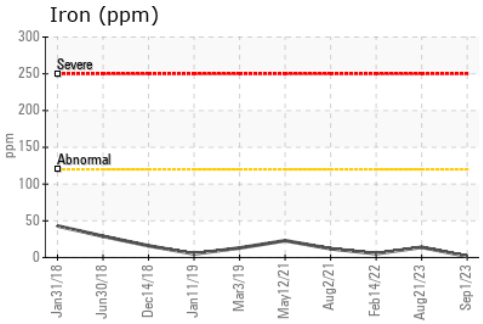
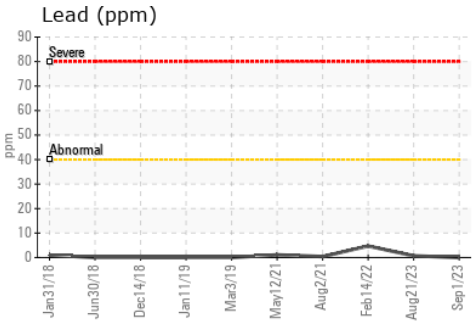


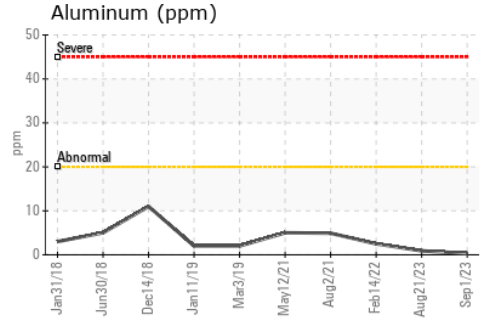
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	.2%
Free Water	scalar	Visual*		**NEG**	NEG	1%

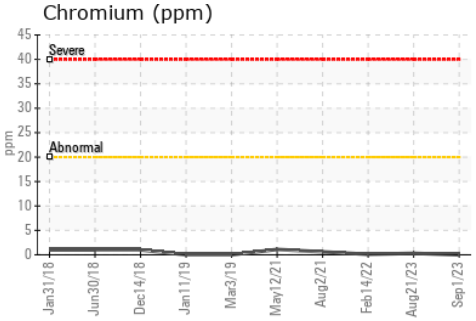
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	**11.1**	10.3	480

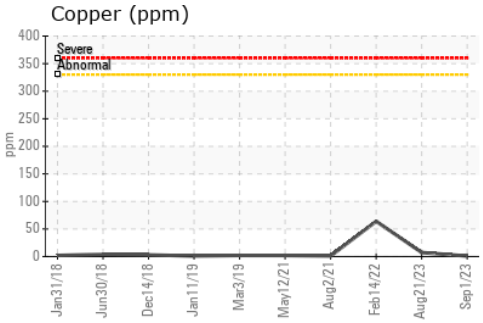
GRAPHS

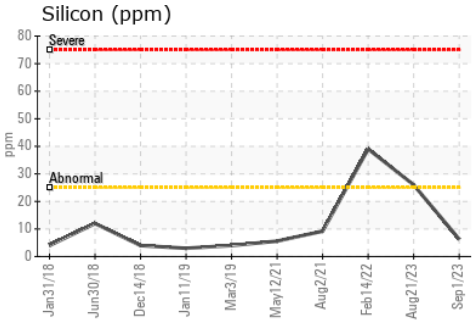


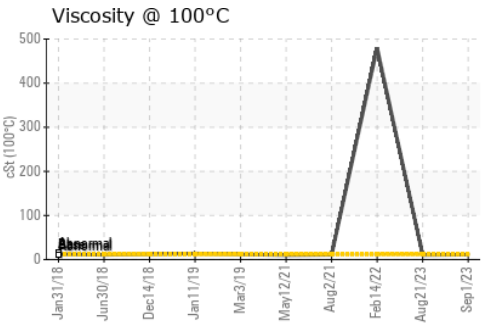


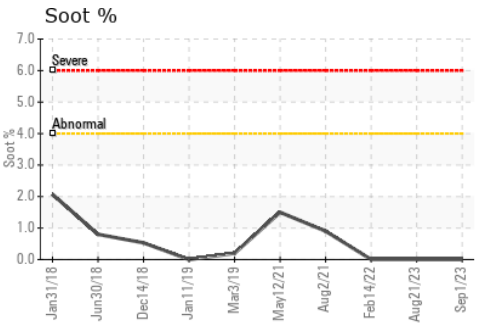












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 554 - Edmonton SW**
Sample No. : GFL0090579 **Received** : 06 Sep 2023
Lab Number : 02580565 **Diagnosed** : 06 Sep 2023
Unique Number : 5633625 **Diagnostician** : Wes Davis
Test Package : MOB 1

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Contact: Tim Greig
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T:
F:

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.