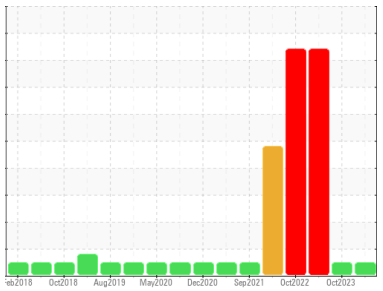
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
701048
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
Metal levels are typical for a new component breaking in.

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		**GFL0097443**	GFL0085675	GFL0059882
Sample Date		Client Info		**15 Jan 2024**	16 Oct 2023	08 Nov 2022
Machine Age	hrs	Client Info		**610**	610	0
Oil Age	hrs	Client Info		**610**	610	108
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	0.0	0.187

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	**12**	12	4
Chromium	ppm	ASTM D5185(m)	>20	**<1**	<1	0
Nickel	ppm	ASTM D5185(m)	>4	**0**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	<1
Silver	ppm	ASTM D5185(m)	>3	**0**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	**2**	2	2
Lead	ppm	ASTM D5185(m)	>40	**0**	0	1
Copper	ppm	ASTM D5185(m)	>330	**1**	3	38
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	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**4**	34	16
Barium	ppm	ASTM D5185(m)	0	**0**	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	**58**	60	57
Manganese	ppm	ASTM D5185(m)	0	**0**	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	**854**	280	776
Calcium	ppm	ASTM D5185(m)	1070	**1153**	1860	914
Phosphorus	ppm	ASTM D5185(m)	1150	**986**	996	970
Zinc	ppm	ASTM D5185(m)	1270	**1173**	1178	1025
Sulfur	ppm	ASTM D5185(m)	2060	**2585**	2808	2481
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**4**	10	5
Sodium	ppm	ASTM D5185(m)		**4**	11	1205
Potassium	ppm	ASTM D5185(m)	>20	**3**	9	256

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0.1**	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	**9.3**	8.9	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	**21.3**	21.2	20.3

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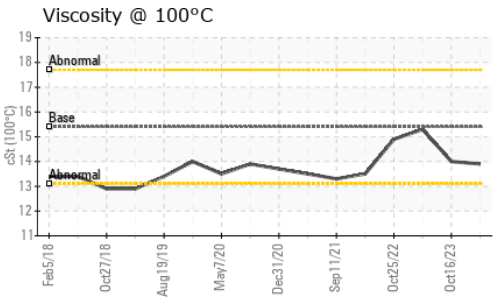
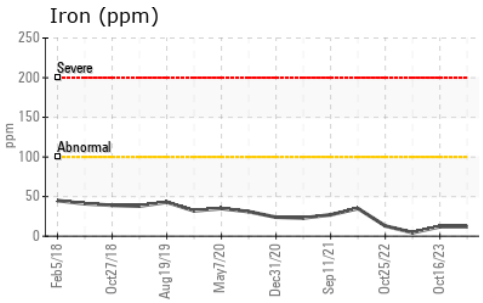


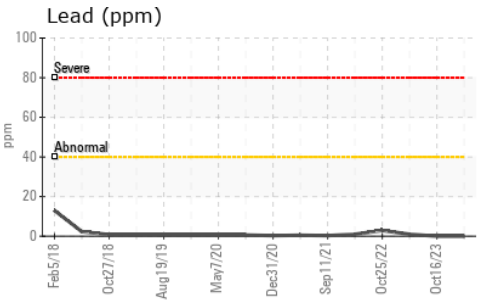
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**17.5**	16.8	14.7

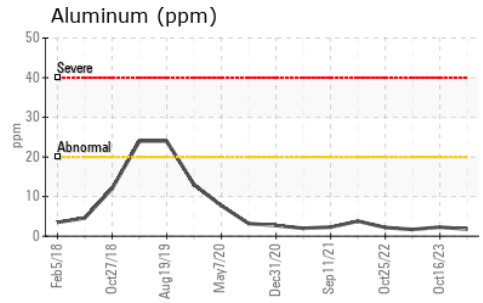
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

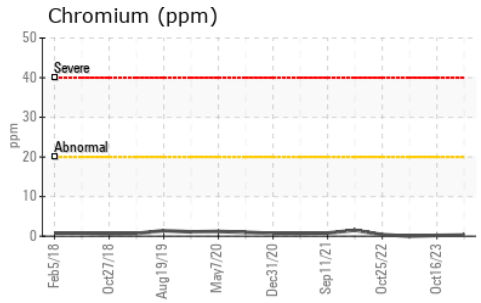
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	**13.9**	14.0	15.3

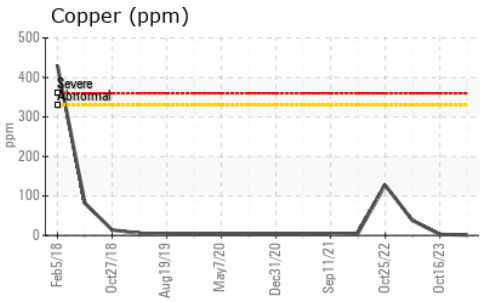
GRAPHS

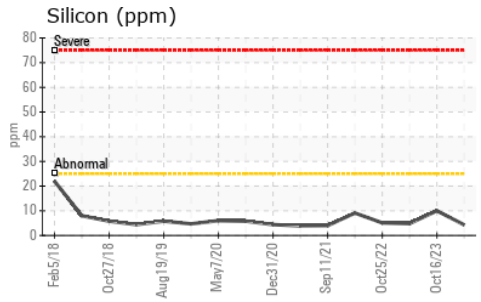


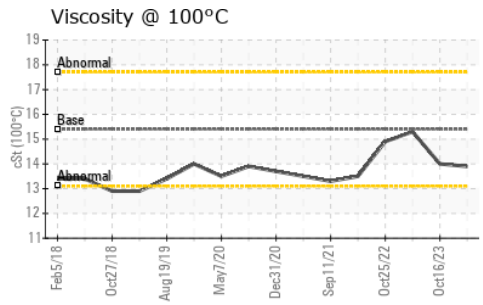


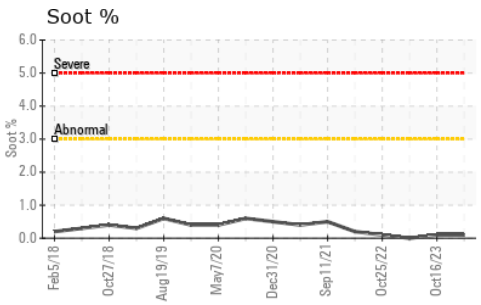












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0097443
Lab Number : 02609190
Unique Number : 5710276
Test Package : MOB 1

Recieved : 17 Jan 2024
Diagnosed : 17 Jan 2024
Diagnostician : Wes Davis

GFL Environmental - 221 - Windsor
905 Tecumseh Road W
Windsor, ON
CA N8W 4J5
Contact: Rhys Marotte
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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.