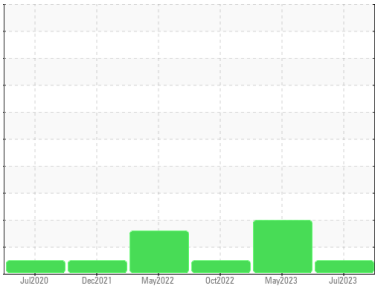
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
OR348
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 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		**GFL0087394**	GFL0056459	GFL0056436
Sample Date		Client Info		**18 Jul 2023**	29 May 2023	28 Oct 2022
Machine Age	hrs	Client Info		**22210**	21984	21186
Oil Age	hrs	Client Info		**226**	798	1331
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	**<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)	>51	**28**	▲ 109	41
Chromium	ppm	ASTM D5185(m)	>11	**<1**	2	<1
Nickel	ppm	ASTM D5185(m)	>5	**<1**	2	<1
Titanium	ppm	ASTM D5185(m)		**0**	<1	<1
Silver	ppm	ASTM D5185(m)	>3	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>31	**2**	7	3
Lead	ppm	ASTM D5185(m)	>26	**<1**	4	<1
Copper	ppm	ASTM D5185(m)	>26	**1**	5	2
Tin	ppm	ASTM D5185(m)	>4	**0**	0	<1
Antimony	ppm	ASTM D5185(m)		**0**	0	0
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	**2**	2	1
Barium	ppm	ASTM D5185(m)	0	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	60	**62**	78	66
Manganese	ppm	ASTM D5185(m)	0	**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	**1022**	1196	1048
Calcium	ppm	ASTM D5185(m)	1070	**1101**	1334	1169
Phosphorus	ppm	ASTM D5185(m)	1150	**1096**	1299	1129
Zinc	ppm	ASTM D5185(m)	1270	**1219**	1430	1279
Sulfur	ppm	ASTM D5185(m)	2060	**2575**	2673	2595
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>22	**4**	6	4
Sodium	ppm	ASTM D5185(m)	>31	**1**	2	2
Potassium	ppm	ASTM D5185(m)	>20	**<1**	0	0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**1.4**	▲ 5	2.5
Nitration	Abs/cm	ASTM D7624*	>20	**7.8**	15.4	10.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	**22.5**	36.1	26.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**15.4**	23.9	18.5

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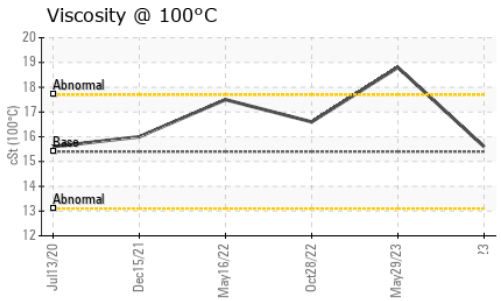
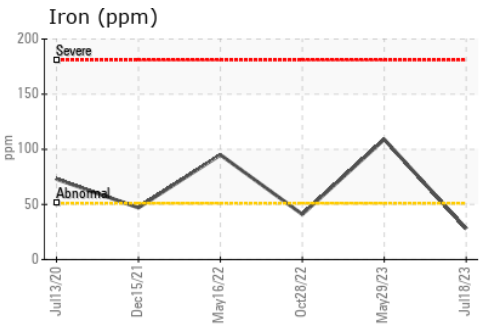
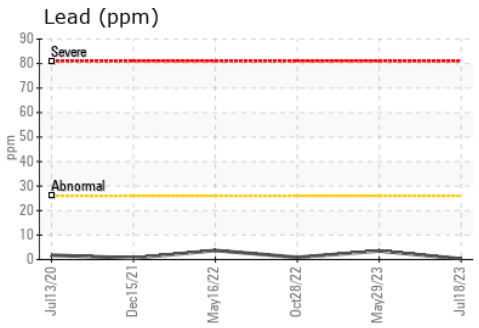


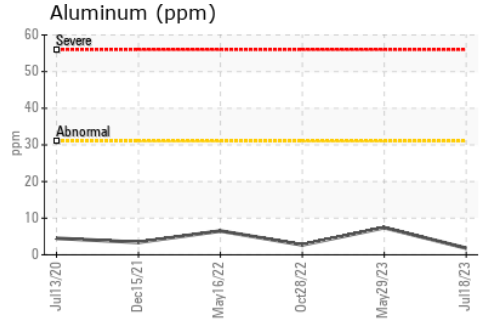
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.21	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

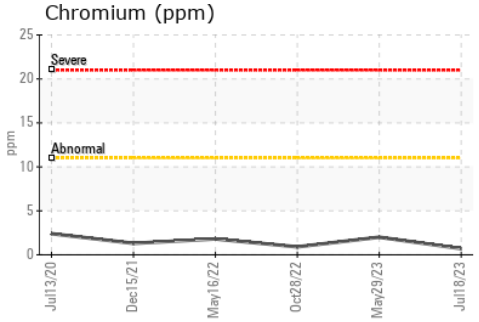
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	**15.6**	▲ 18.8	16.6

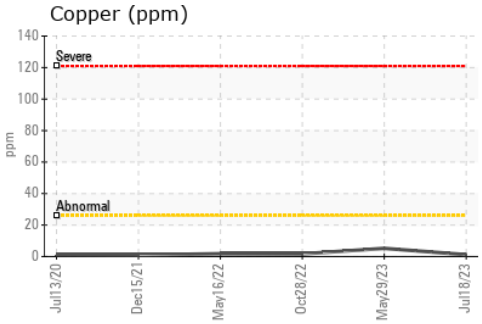
GRAPHS

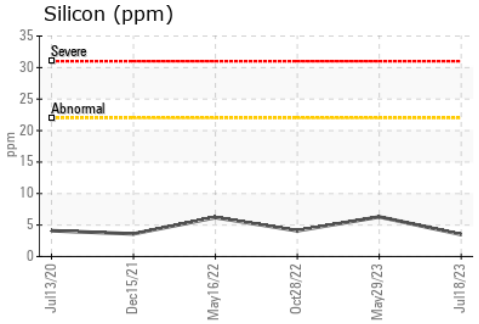


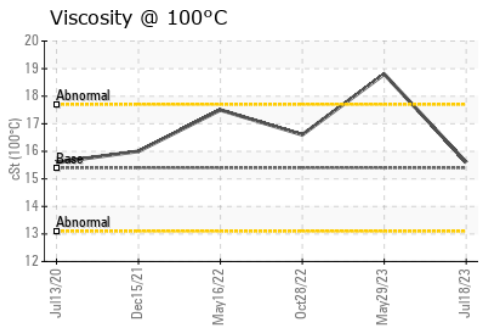


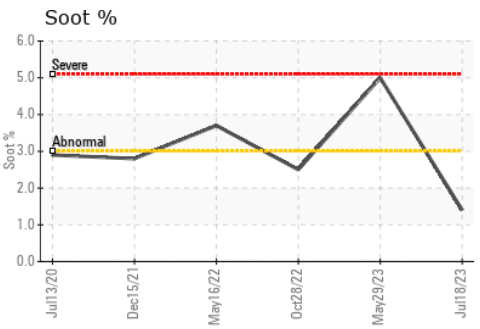












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 720 - Lafleche - Landfill**
Sample No. : GFL0087394
Lab Number : 02571891
Unique Number : 5616942
Test Package : MOB 1

Received : 25 Jul 2023
Diagnosed : 25 Jul 2023
Diagnostician : Wes Davis

17125 Lafleche Road,
Moose Creek, ON
CA K0C 1W0
Contact: Charles Bergeron
cbergeron@gflenv.com
T: (613)538-4853
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.