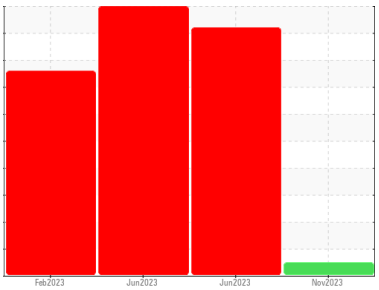
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
8135
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

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

Contamination
Test for glycol is negative. 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		**GFL0101711**	GFL0085950	GFL0085953
Sample Date		Client Info		**25 Nov 2023**	21 Jun 2023	16 Jun 2023
Machine Age	hrs	Client Info		**473**	68360	0
Oil Age	hrs	Client Info		**0**	0	6825
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**NORMAL**	SEVERE	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	**<1.0**	▲ 4.9	⬢ 13.4
Water		WC Method	>0.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	**80**	2	6
Chromium	ppm	ASTM D5185(m)	>20	**2**	<1	1
Nickel	ppm	ASTM D5185(m)	>4	**<1**	<1	0
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>3	**1**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	**4**	<1	1
Lead	ppm	ASTM D5185(m)	>40	**3**	<1	2
Copper	ppm	ASTM D5185(m)	>330	**77**	13	38
Tin	ppm	ASTM D5185(m)	>15	**1**	0	0
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)	2	**5**	2	5
Barium	ppm	ASTM D5185(m)	0	**9**	0	0
Molybdenum	ppm	ASTM D5185(m)	50	**54**	79	129
Manganese	ppm	ASTM D5185(m)	0	**5**	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	**855**	855	670
Calcium	ppm	ASTM D5185(m)	1050	**1016**	928	781
Phosphorus	ppm	ASTM D5185(m)	995	**840**	995	829
Zinc	ppm	ASTM D5185(m)	1180	**1065**	1084	885
Sulfur	ppm	ASTM D5185(m)	2600	**2083**	2467	2057
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**29**	4	5
Sodium	ppm	ASTM D5185(m)		**36**	▲ 721	▲ 2179
Potassium	ppm	ASTM D5185(m)	>20	**5**	▲ 6	▲ 16
Glycol	%	ASTM D7922*		**0.0**	⬢ 0.112	⬢ 0.545

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0.9**	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	**9.7**	6.7	11.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	**21.7**	18.2	19.9

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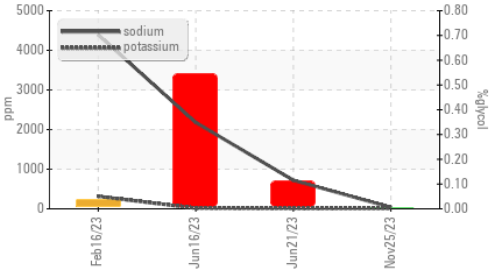
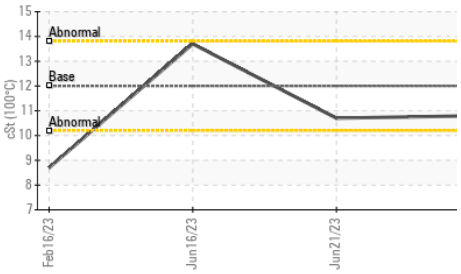
Glycol Contamination



Viscosity @ 100°C



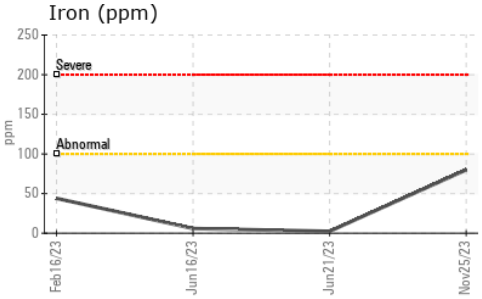
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**18.1**	15.0	20.4

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

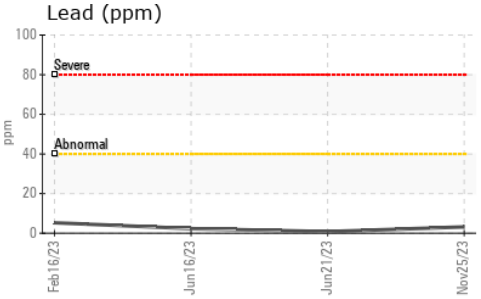
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	**10.8**	10.7	13.7

GRAPHS

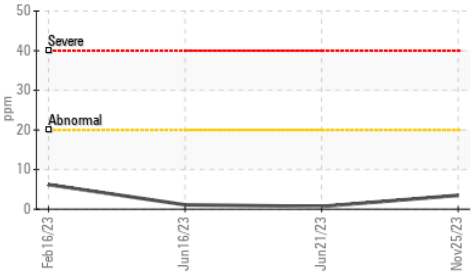
Iron (ppm)



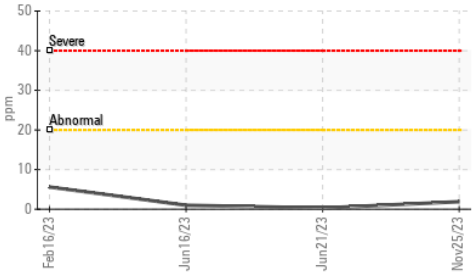
Lead (ppm)



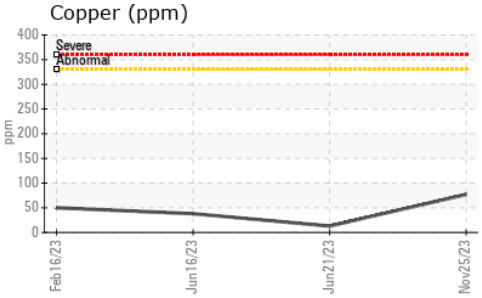
Aluminum (ppm)



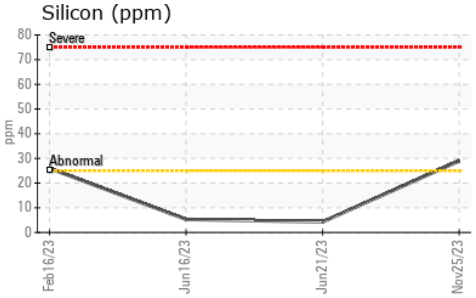
Chromium (ppm)



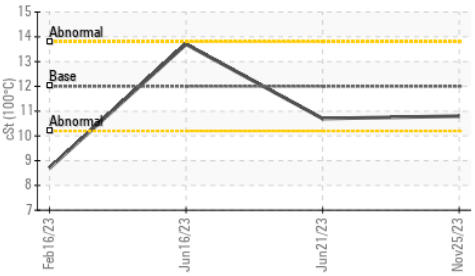
Copper (ppm)



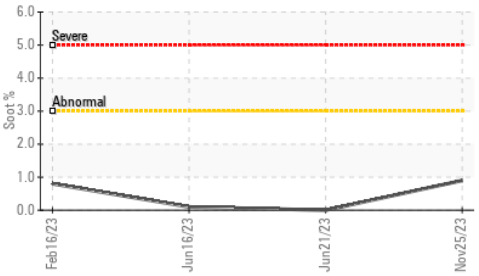
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 554 - Edmonton SW**
Sample No. : GFL0101711 **Received** : 05 Dec 2023
Lab Number : 02600913 **Diagnosed** : 05 Dec 2023
Unique Number : 5693998 **Diagnostician** : Wes Davis
Test Package : MOB 1

8409 -15th Street NW
Edmonton, AB
CA T6P 0B8
Contact: Tim Greig
tgreig@gflenv.com
T: (780)231-0521
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.