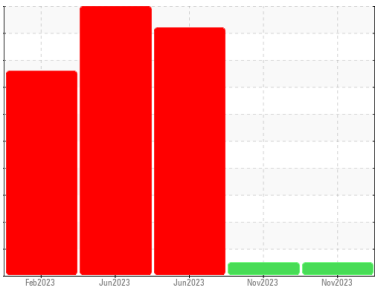
OIL ANALYSIS REPORT

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
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		**GFL0101729**	GFL0101711	GFL0085950
Sample Date		Client Info		**28 Nov 2023**	25 Nov 2023	21 Jun 2023
Machine Age	hrs	Client Info		**494**	473	68360
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**NORMAL**	NORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	**<1.0**	<1.0	▲ 4.9
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	0.0	⬢ 0.112

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	**14**	80	2
Chromium	ppm	ASTM D5185(m)	>20	**<1**	2	<1
Nickel	ppm	ASTM D5185(m)	>4	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>3	**<1**	1	<1
Aluminum	ppm	ASTM D5185(m)	>20	**<1**	4	<1
Lead	ppm	ASTM D5185(m)	>40	**<1**	3	<1
Copper	ppm	ASTM D5185(m)	>330	**14**	77	13
Tin	ppm	ASTM D5185(m)	>15	**0**	1	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	**3**	5	2
Barium	ppm	ASTM D5185(m)	0	**1**	9	0
Molybdenum	ppm	ASTM D5185(m)	50	**55**	54	79
Manganese	ppm	ASTM D5185(m)	0	**<1**	5	<1
Magnesium	ppm	ASTM D5185(m)	950	**923**	855	855
Calcium	ppm	ASTM D5185(m)	1050	**1013**	1016	928
Phosphorus	ppm	ASTM D5185(m)	995	**956**	840	995
Zinc	ppm	ASTM D5185(m)	1180	**1115**	1065	1084
Sulfur	ppm	ASTM D5185(m)	2600	**2499**	2083	2467
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**6**	29	4
Sodium	ppm	ASTM D5185(m)		**6**	36	▲ 721
Potassium	ppm	ASTM D5185(m)	>20	**<1**	5	▲ 6

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0.1**	0.9	0
Nitration	Abs/cm	ASTM D7624*	>20	**5.1**	9.7	6.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	**18.2**	21.7	18.2

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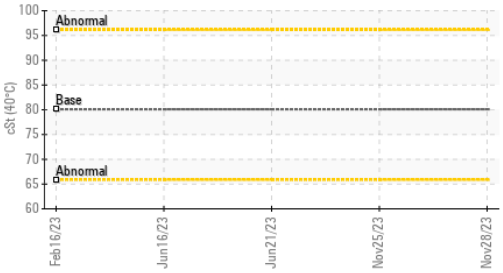
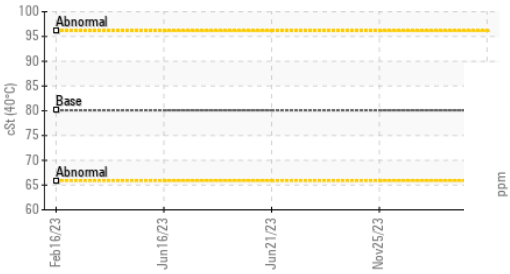
Viscosity @ 40°C



Viscosity @ 40°C



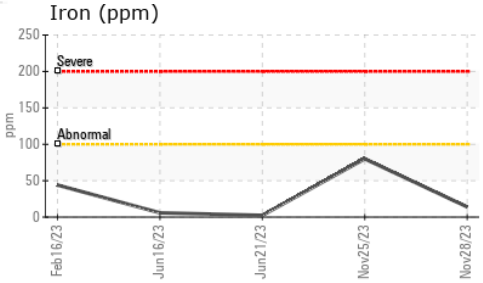
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**13.5**	18.1	15.0

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

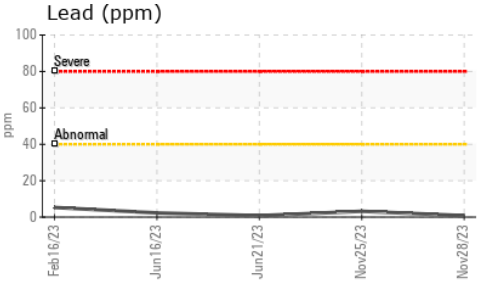
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	**73.3**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	**11.2**	10.8	10.7
Viscosity Index (VI)	Scale	ASTM D2270*	144	**144**	---	---

GRAPHS

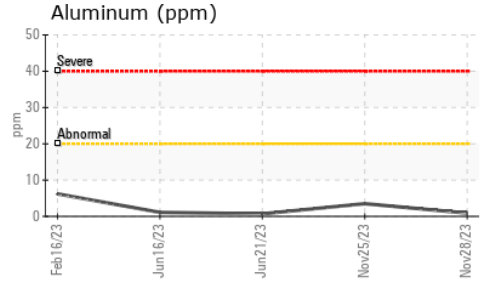
Iron (ppm)



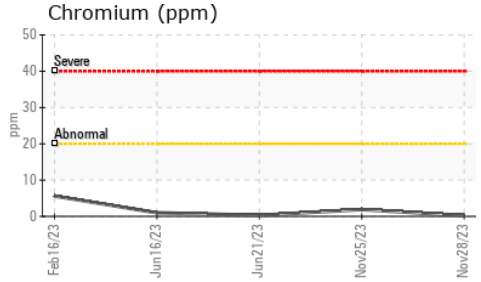
Lead (ppm)



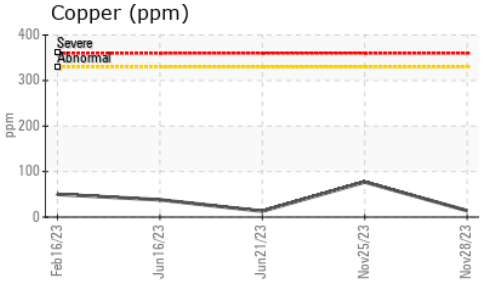
Aluminum (ppm)



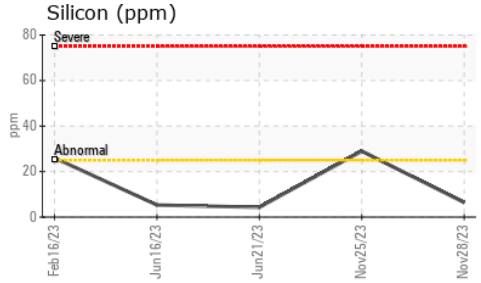
Chromium (ppm)



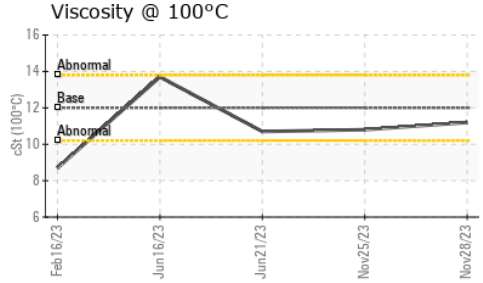
Copper (ppm)



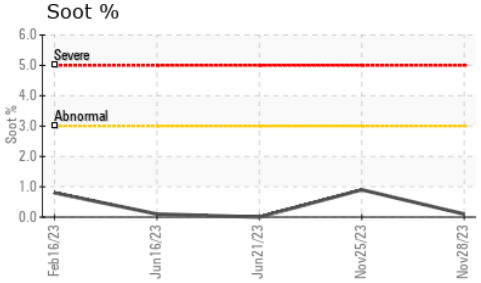
Silicon (ppm)



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. : GFL0101729 **Received** : 11 Dec 2023
Lab Number : 02602123 **Diagnosed** : 11 Dec 2023
Unique Number : 5695208 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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.