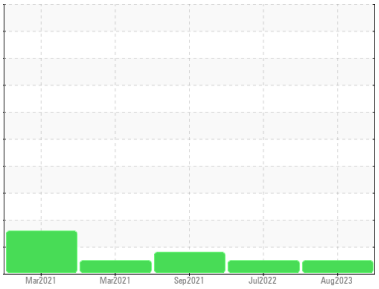
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
831003
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON HP 15W40 (--- LTR)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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		**GFL0090602**	GFL0053100	GFL0032547
Sample Date		Client Info		**25 Aug 2023**	18 Jul 2022	13 Sep 2021
Machine Age	hrs	Client Info		**6420**	4373	2328
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	ABNORMAL

CONTAMINATION	method	limit/base	current	history1	history2
Glycol	WC Method		**---**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	**31**	20	31
Chromium	ppm	ASTM D5185(m)	>4	**2**	2	4
Nickel	ppm	ASTM D5185(m)	>2	**1**	<1	1
Titanium	ppm	ASTM D5185(m)		**0**	<1	0
Silver	ppm	ASTM D5185(m)	>3	**0**	0	<1
Aluminum	ppm	ASTM D5185(m)	>9	**13**	25	▲ 48
Lead	ppm	ASTM D5185(m)	>30	**3**	2	2
Copper	ppm	ASTM D5185(m)	>35	**2**	1	4
Tin	ppm	ASTM D5185(m)	>4	**<1**	<1	2
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	**11**	8	8
Barium	ppm	ASTM D5185(m)	0	**0**	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	**63**	62	63
Manganese	ppm	ASTM D5185(m)	0	**1**	1	3
Magnesium	ppm	ASTM D5185(m)	1010	**687**	795	570
Calcium	ppm	ASTM D5185(m)	1070	**1842**	1695	1655
Phosphorus	ppm	ASTM D5185(m)	1150	**930**	946	822
Zinc	ppm	ASTM D5185(m)	1270	**1072**	1182	991
Sulfur	ppm	ASTM D5185(m)	2060	**2140**	2418	1974
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	**5**	5	8
Sodium	ppm	ASTM D5185(m)		**10**	8	10
Potassium	ppm	ASTM D5185(m)	>20	**22**	39	84

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**13.3**	10.7	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	**29.9**	23.2	26.5

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**24.2**	20.1	21.9

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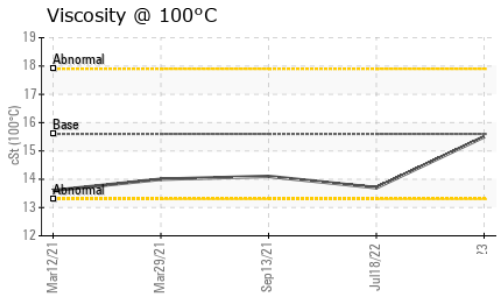
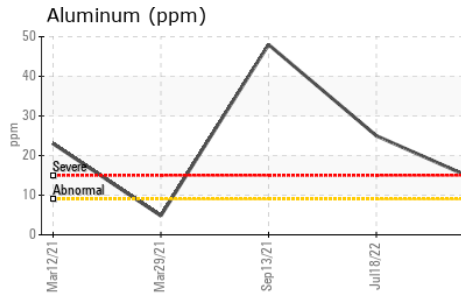
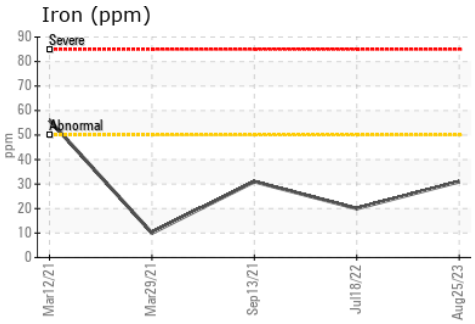


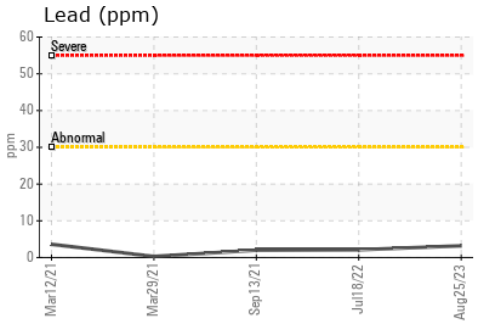


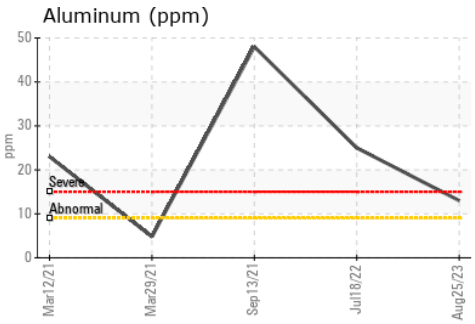
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

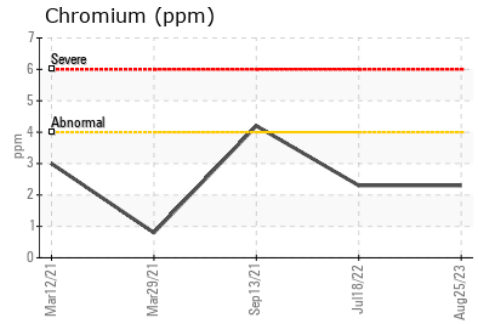
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	**15.5**	13.7	14.1

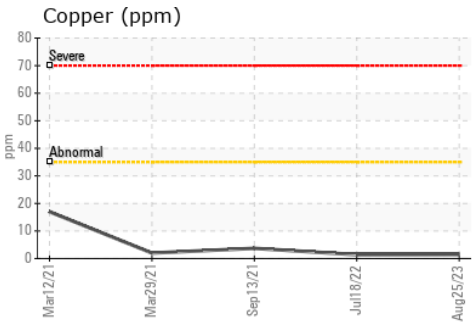
GRAPHS

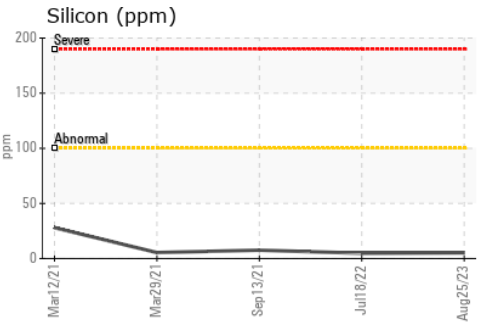


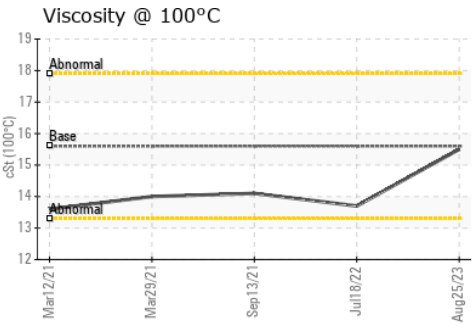


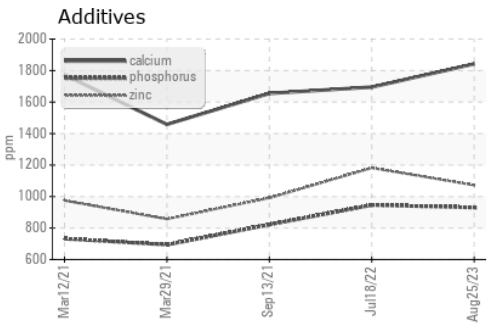












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 554 - Edmonton SW**
Sample No. : GFL0090602 **Received** : 05 Sep 2023
Lab Number : 02580281 **Diagnosed** : 05 Sep 2023
Unique Number : 5633341 **Diagnostician** : Wes Davis
Test Package : MOB 1

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Contact: Tim Greig
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T:
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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.