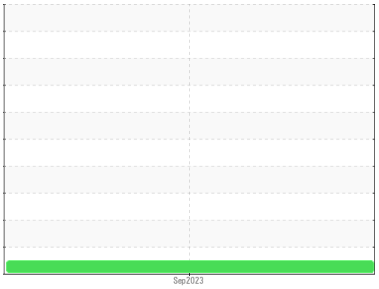
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
433009
Component
Diesel Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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

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		**GFL0084128**	---	---
Sample Date		Client Info		**20 Sep 2023**	---	---
Machine Age	kms	Client Info		**16373**	---	---
Oil Age	kms	Client Info		**564**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**NORMAL**	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	**<1.0**	---	---
Glycol		WC Method		**NEG**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	**42**	---	---
Chromium	ppm	ASTM D5185(m)	>20	**<1**	---	---
Nickel	ppm	ASTM D5185(m)	>4	**0**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)	>3	**<1**	---	---
Aluminum	ppm	ASTM D5185(m)	>20	**4**	---	---
Lead	ppm	ASTM D5185(m)	>40	**3**	---	---
Copper	ppm	ASTM D5185(m)	>330	**11**	---	---
Tin	ppm	ASTM D5185(m)	>15	**1**	---	---
Antimony	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	**44**	---	---
Barium	ppm	ASTM D5185(m)	5	**5**	---	---
Molybdenum	ppm	ASTM D5185(m)	50	**107**	---	---
Manganese	ppm	ASTM D5185(m)	0	**4**	---	---
Magnesium	ppm	ASTM D5185(m)	560	**679**	---	---
Calcium	ppm	ASTM D5185(m)	1510	**1305**	---	---
Phosphorus	ppm	ASTM D5185(m)	780	**680**	---	---
Zinc	ppm	ASTM D5185(m)	870	**828**	---	---
Sulfur	ppm	ASTM D5185(m)	2040	**2333**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**90**	---	---
Sodium	ppm	ASTM D5185(m)		**4**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**6**	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0**	---	---
Nitration	Abs/cm	ASTM D7624*	>20	**8.2**	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**22.0**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**16.2**	---	---

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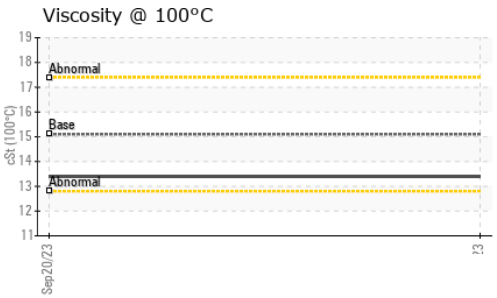
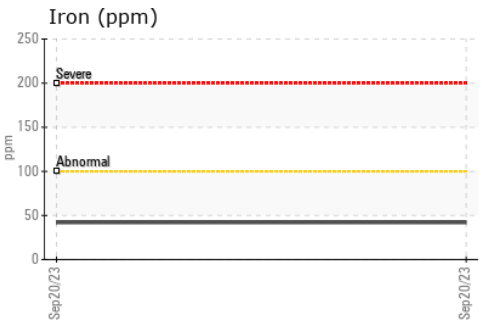
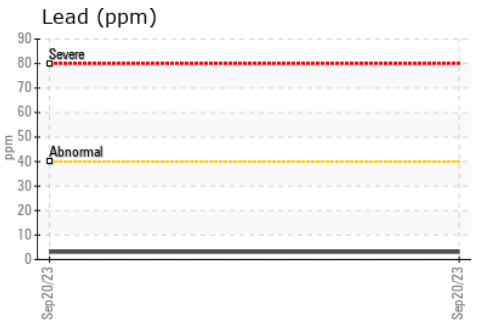


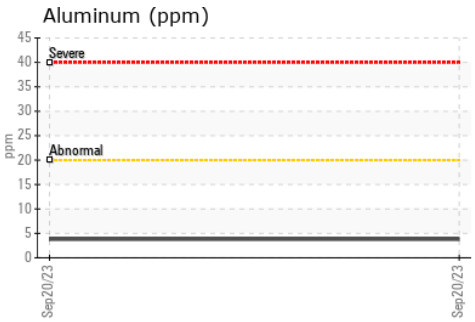
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	---	---
Free Water	scalar	Visual*		**NEG**	---	---

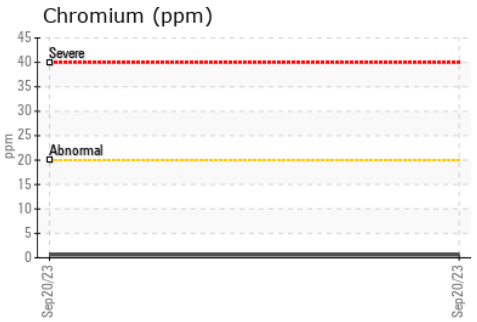
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	**13.4**	---	---

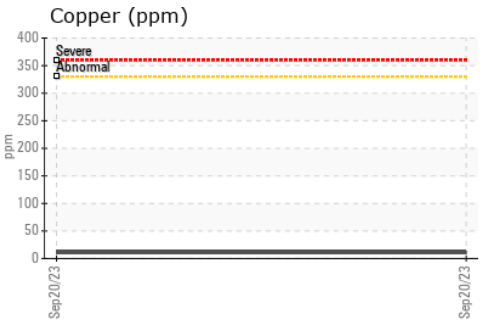
GRAPHS

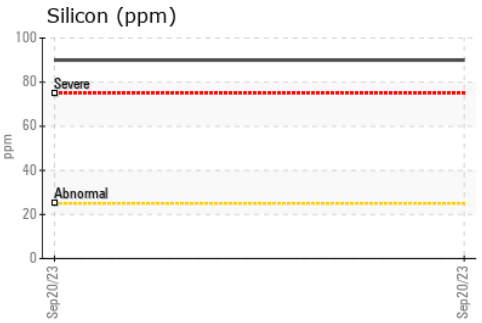


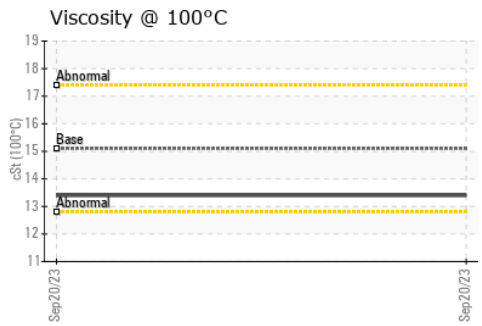


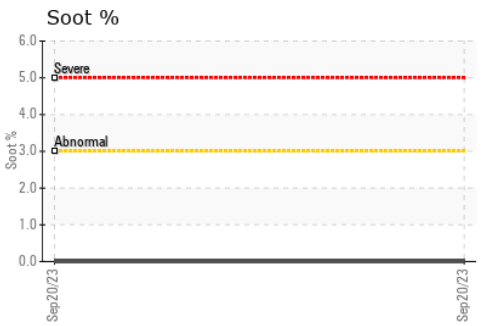












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 574 - Vancouver Fleet**
Sample No. : GFL0084128 **Received** : 24 Oct 2023
Lab Number : 02591275 **Diagnosed** : 24 Oct 2023
Unique Number : 5668354 **Diagnostician** : Kevin Marson
Test Package : MOB 1

70 Golden Drive,
Coquitlam, BC
CA V3K 6B5
Contact: Gary Ewasiuk
gewasiuk@gflenv.com
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.