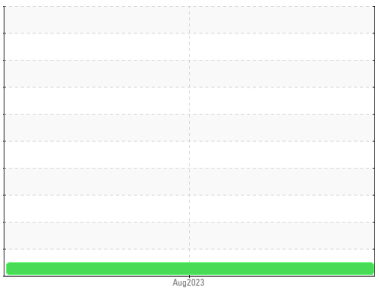
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
733025
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

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		**GFL0084155**	---	---
Sample Date		Client Info		**15 Aug 2023**	---	---
Machine Age	kms	Client Info		**19550**	---	---
Oil Age	kms	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**NORMAL**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	**38**	---	---
Chromium	ppm	ASTM D5185(m)	>4	**1**	---	---
Nickel	ppm	ASTM D5185(m)	>2	**<1**	---	---
Titanium	ppm	ASTM D5185(m)		**<1**	---	---
Silver	ppm	ASTM D5185(m)	>3	**<1**	---	---
Aluminum	ppm	ASTM D5185(m)	>9	**7**	---	---
Lead	ppm	ASTM D5185(m)	>30	**2**	---	---
Copper	ppm	ASTM D5185(m)	>35	**12**	---	---
Tin	ppm	ASTM D5185(m)	>4	**2**	---	---
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	**14**	---	---
Barium	ppm	ASTM D5185(m)	5	**2**	---	---
Molybdenum	ppm	ASTM D5185(m)	50	**79**	---	---
Manganese	ppm	ASTM D5185(m)	0	**7**	---	---
Magnesium	ppm	ASTM D5185(m)	560	**593**	---	---
Calcium	ppm	ASTM D5185(m)	1510	**1310**	---	---
Phosphorus	ppm	ASTM D5185(m)	780	**708**	---	---
Zinc	ppm	ASTM D5185(m)	870	**823**	---	---
Sulfur	ppm	ASTM D5185(m)	2040	**2109**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

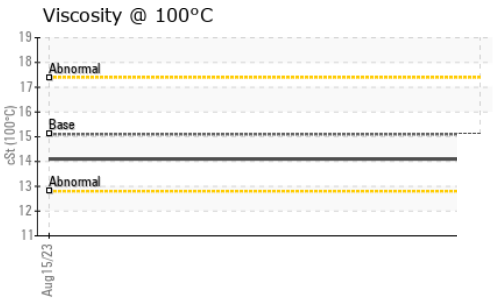
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	**19**	---	---
Sodium	ppm	ASTM D5185(m)		**4**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**16**	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	---	---
Nitration	Abs/cm	ASTM D7624*	>20	**9.9**	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**24.3**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**18.2**	---	---

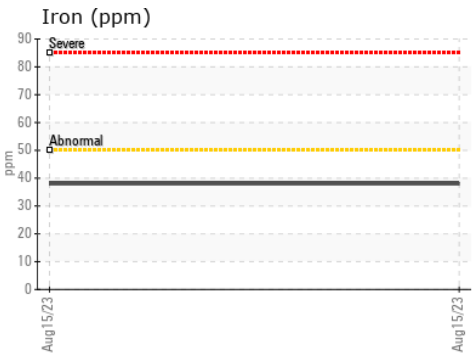
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	**NEG**	---	---
Free Water	scalar	Visual*		**NEG**	---	---

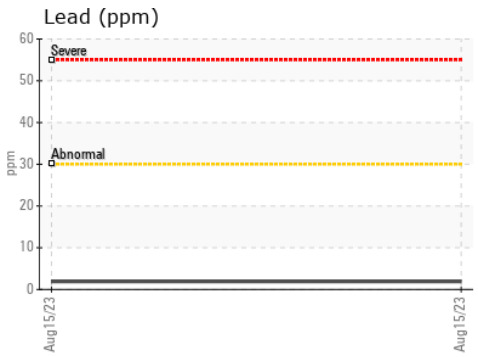
OIL ANALYSIS REPORT

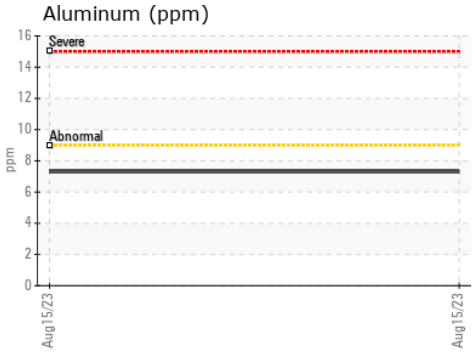


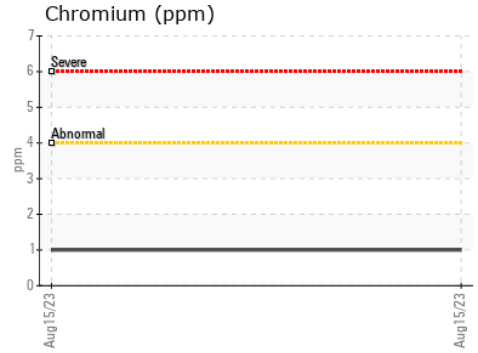
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	**14.1**	---	---

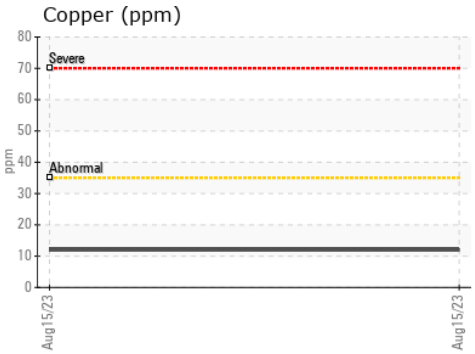
GRAPHS

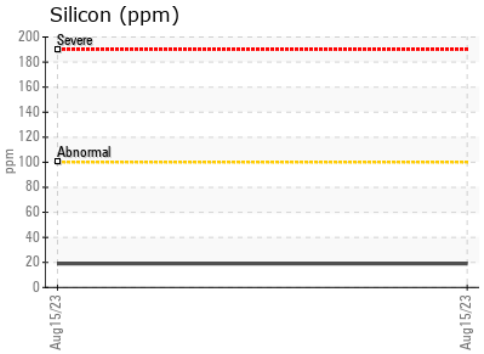


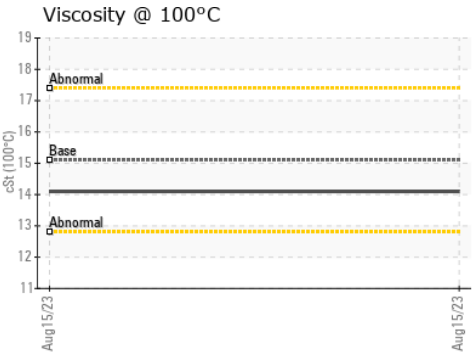


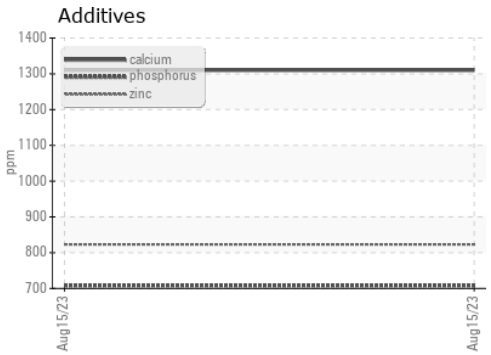












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 573 - Vancouver Hauling**
Sample No. : GFL0084155 **Received** : 08 Sep 2023 70 Golden Drive,
Lab Number : 02581133 **Diagnosed** : 08 Sep 2023 Coquitlam, BC
Unique Number : 5642198 **Diagnostician** : Wes Davis CA V3K 6B5
Test Package : MOB 1 Contact: Catia Klagenberg Alves

To discuss this sample report, contact Customer Service at 1-800-268-2131. cklagenbergalves@gflenv.com
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T:
Validity of results and interpretation are based on the sample and information as supplied. F: