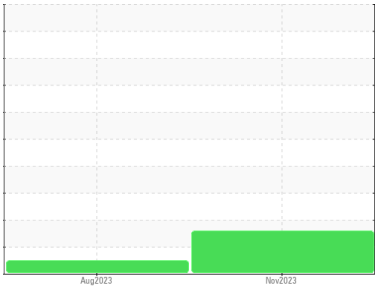
OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Machine Id
Komptech Cribus
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (12 LTR)

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Wear

Aluminum ppm levels are noted. All other component wear rates are normal.

Contamination

Fuel content negligible. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0092243**	GFL0087354	---
Sample Date		Client Info		**15 Nov 2023**	30 Aug 2023	---
Machine Age	hrs	Client Info		**1948**	1948	---
Oil Age	hrs	Client Info		**500**	668	---
Oil Changed		Client Info		**Changed**	Changed	---
Sample Status				**ABNORMAL**	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.21	**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>51	**16**	10	---
Chromium	ppm	ASTM D5185(m)	>11	**<1**	<1	---
Nickel	ppm	ASTM D5185(m)	>5	**0**	0	---
Titanium	ppm	ASTM D5185(m)		**0**	<1	---
Silver	ppm	ASTM D5185(m)	>3	**<1**	0	---
Aluminum	ppm	ASTM D5185(m)	>31	**7**	3	---
Lead	ppm	ASTM D5185(m)	>26	**6**	<1	---
Copper	ppm	ASTM D5185(m)	>26	**234**	25	---
Tin	ppm	ASTM D5185(m)	>4	**<1**	<1	---
Antimony	ppm	ASTM D5185(m)		**0**	0	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**220**	2	---
Barium	ppm	ASTM D5185(m)	0	**2**	0	---
Molybdenum	ppm	ASTM D5185(m)	60	**110**	60	---
Manganese	ppm	ASTM D5185(m)	0	**2**	<1	---
Magnesium	ppm	ASTM D5185(m)	1010	**606**	1018	---
Calcium	ppm	ASTM D5185(m)	1070	**1745**	1305	---
Phosphorus	ppm	ASTM D5185(m)	1150	**772**	1092	---
Zinc	ppm	ASTM D5185(m)	1270	**895**	1344	---
Sulfur	ppm	ASTM D5185(m)	2060	**2176**	2603	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>22	▲ **27**	11	---
Sodium	ppm	ASTM D5185(m)	>31	**2**	3	---
Potassium	ppm	ASTM D5185(m)	>20	**4**	<1	---
Fuel	%	ASTM D7593*	>2.1	**0.9**	<1.0	---
Glycol	%	ASTM D7922*		**0.0**	NEG	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0**	0	---
Nitration	Abs/cm	ASTM D7624*	>20	**9.8**	10.0	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**23.5**	23.6	---

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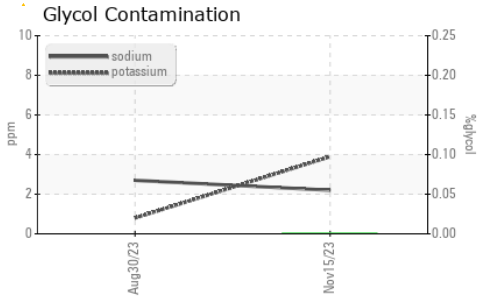
Glycol Contamination



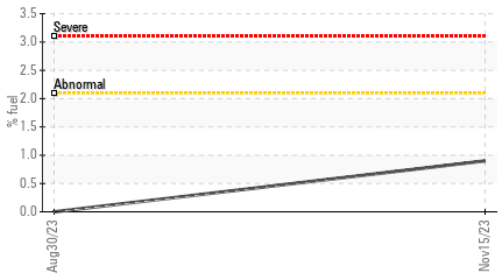
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**19.3**	18.8	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.21	**NEG**	NEG	---
Free Water	scalar	Visual*		**NEG**	NEG	---

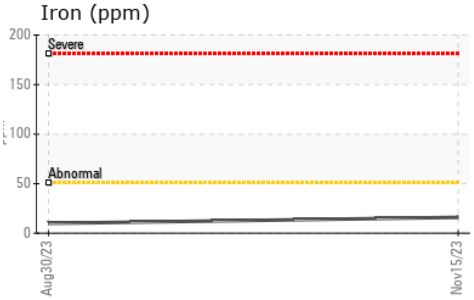
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	**12.7**	15.6	---

GRAPHS

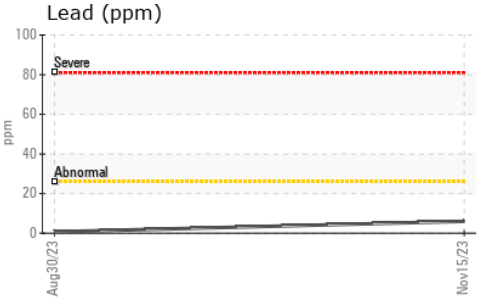
Fuel Dilution



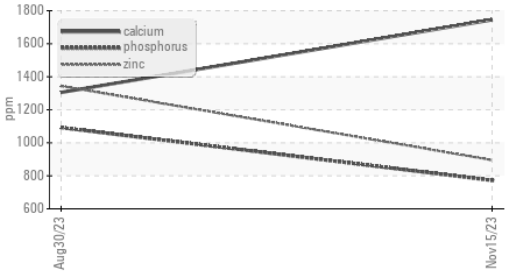
Iron (ppm)



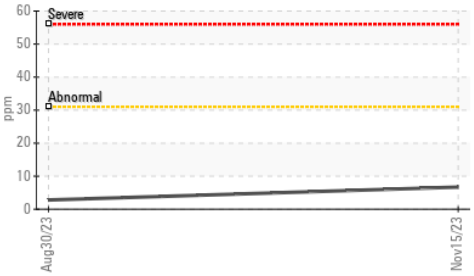
Lead (ppm)



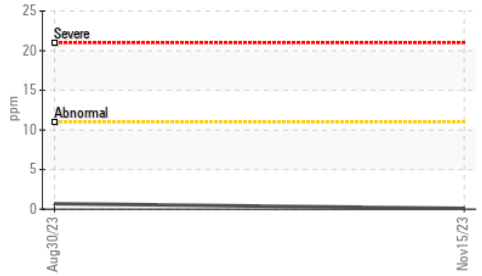
Additives



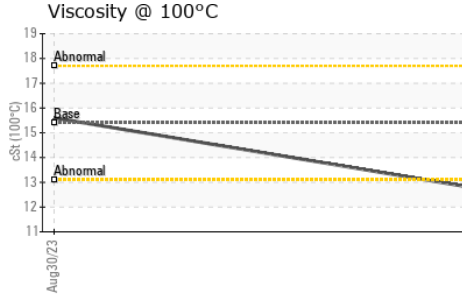
Aluminum (ppm)



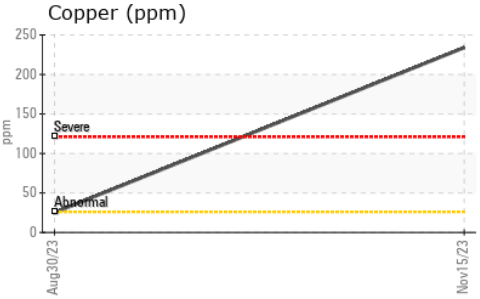
Chromium (ppm)



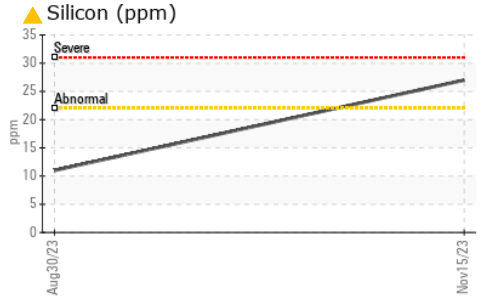
Viscosity @ 100°C



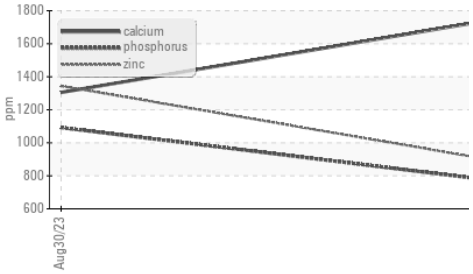
Copper (ppm)



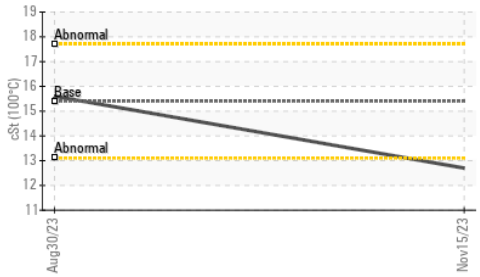
Silicon (ppm)



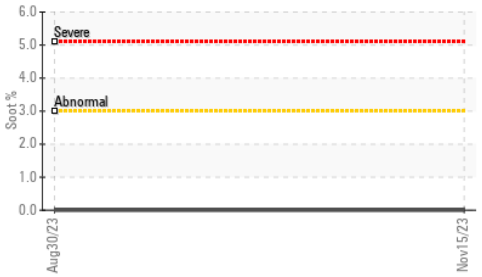
Additives



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 720 - Lafleche - Landfill**
Sample No. : GFL0092243 **Received** : 20 Nov 2023 17125 Lafleche Road,
Lab Number : 02597397 **Diagnosed** : 21 Nov 2023 Moose Creek, ON
Unique Number : 5682477 **Diagnostician** : Kevin Marson CA K0C 1W0
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel) Contact: Charles Bergeron

To discuss this sample report, contact Customer Service at 1-800-268-2131. cbergeron@gflenv.com
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (613)538-4853
Validity of results and interpretation are based on the sample and information as supplied. F: