



OIL ANALYSIS REPORT

Sample Rating Trend

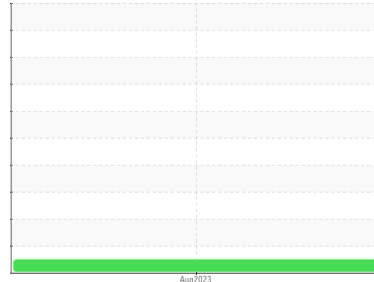
NORMAL



Machine Id
NO UNIT GFL0059075

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 15W40 (--- LTR)



DIAGNOSIS

Recommendation

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

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	GFL0059075	---	---
Sample Date	Client Info	08 Aug 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	600	---	---
Oil Changed	Client Info	Changed	---	---
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	23	---	---
Chromium	ppm ASTM D5185(m) >20	<1	---	---
Nickel	ppm ASTM D5185(m) >4	<1	---	---
Titanium	ppm ASTM D5185(m)	0	---	---
Silver	ppm ASTM D5185(m) >3	<1	---	---
Aluminum	ppm ASTM D5185(m) >20	5	---	---
Lead	ppm ASTM D5185(m) >40	<1	---	---
Copper	ppm ASTM D5185(m) >330	3	---	---
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) 0	5	---	---
Barium	ppm ASTM D5185(m) 0	<1	---	---
Molybdenum	ppm ASTM D5185(m) 60	66	---	---
Manganese	ppm ASTM D5185(m) 0	0	---	---
Magnesium	ppm ASTM D5185(m) 1010	1016	---	---
Calcium	ppm ASTM D5185(m) 1070	1117	---	---
Phosphorus	ppm ASTM D5185(m) 1150	998	---	---
Zinc	ppm ASTM D5185(m) 1270	1251	---	---
Sulfur	ppm ASTM D5185(m) 2060	2407	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	4	---	---
Sodium	ppm ASTM D5185(m)	9	---	---
Potassium	ppm ASTM D5185(m) >20	5	---	---

INFRA-RED

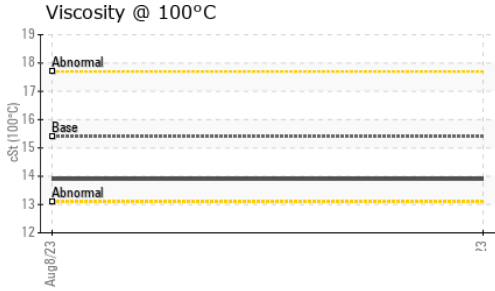
method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	0.4	---	---
Nitration	Abs/cm ASTM D7624* >20	13.5	---	---
Sulfation	Abs/.1mm ASTM D7415* >30	27.4	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	24.4	---	---



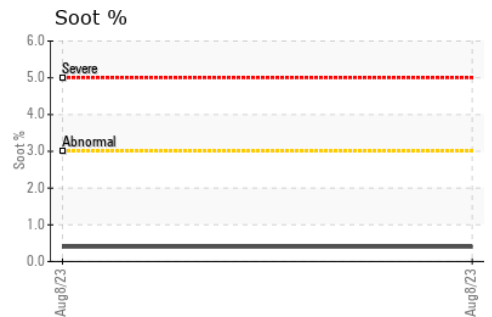
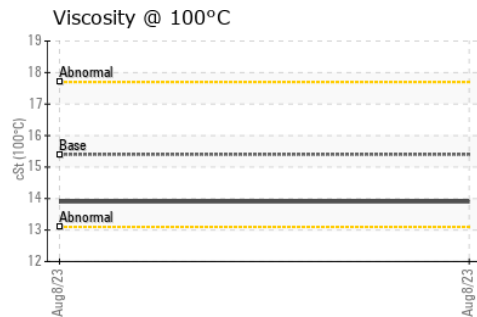
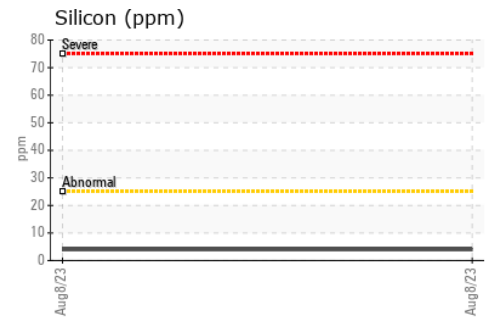
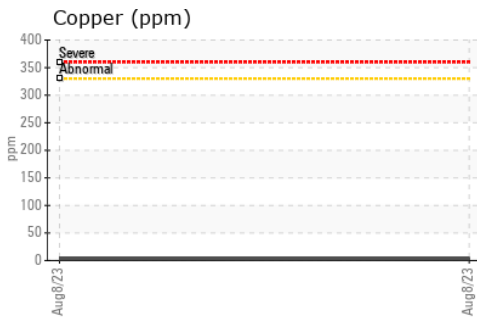
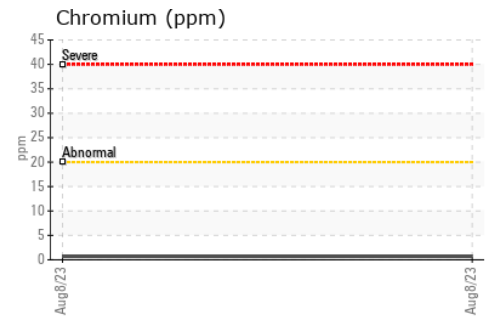
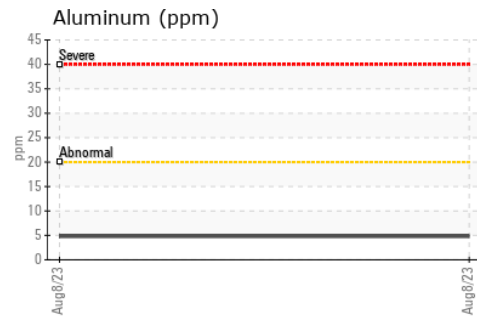
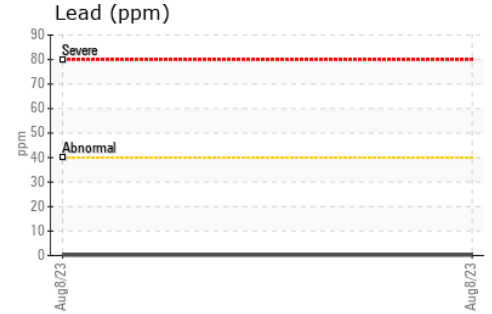
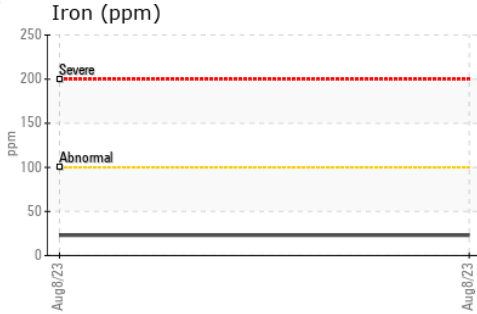
OIL ANALYSIS REPORT



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)	15.4	13.9	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 570 - Thunder Bay
Sample No. : GFL0059075 **Received** : 06 Nov 2023
Lab Number : 02594034 **Diagnosed** : 06 Nov 2023
Unique Number : 5671113 **Diagnostician** : Wes Davis
Test Package : MOB 1

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.

3000 Highway 61,
 Slate River, ON
 CA P7J 0G8
 Contact: Cindy Wall
 cwall@gflenv.com
 T: (807)577-0411
 F: