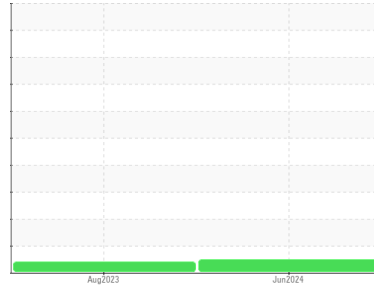




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

527099

Component

Front Diesel Engine

Fluid

PETRO CANADA DURON SHP 15W40 (40 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

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	GFL0124640	GFL0087355	---
Sample Date	Client Info	10 Jun 2024	03 Aug 2023	---
Machine Age	hrs	Client Info	21544	0
Oil Age	hrs	Client Info	500	0
Oil Changed	Client Info	Changed	Changed	---
Sample Status		NORMAL	ABNORMAL	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	1.4	---
Water	WC Method >0.2	NEG	NEG	---
Glycol	WC Method	NEG	NEG	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	49	57	---
Chromium	ppm ASTM D5185(m) >20	4	4	---
Nickel	ppm ASTM D5185(m) >4	<1	<1	---
Titanium	ppm ASTM D5185(m)	11	90	---
Silver	ppm ASTM D5185(m) >3	0	0	---
Aluminum	ppm ASTM D5185(m) >20	4	9	---
Lead	ppm ASTM D5185(m) >40	<1	1	---
Copper	ppm ASTM D5185(m) >330	2	6	---
Tin	ppm ASTM D5185(m) >15	<1	<1	---
Antimony	ppm ASTM D5185(m)	0	0	---
Vanadium	ppm ASTM D5185(m)	0	<1	---
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	11	89	---
Barium	ppm ASTM D5185(m) 0	0	0	---
Molybdenum	ppm ASTM D5185(m) 60	51	4	---
Manganese	ppm ASTM D5185(m) 0	<1	<1	---
Magnesium	ppm ASTM D5185(m) 1010	820	378	---
Calcium	ppm ASTM D5185(m) 1070	1212	2032	---
Phosphorus	ppm ASTM D5185(m) 1150	938	1034	---
Zinc	ppm ASTM D5185(m) 1270	1161	1175	---
Sulfur	ppm ASTM D5185(m) 2060	2438	2859	---
Lithium	ppm ASTM D5185(m)	<1	<1	---

CONTAMINANTS

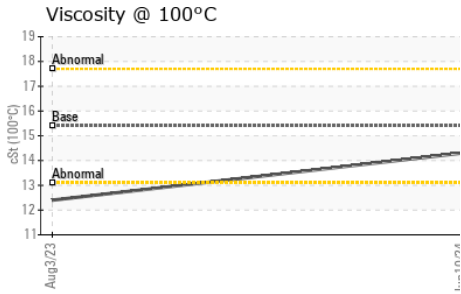
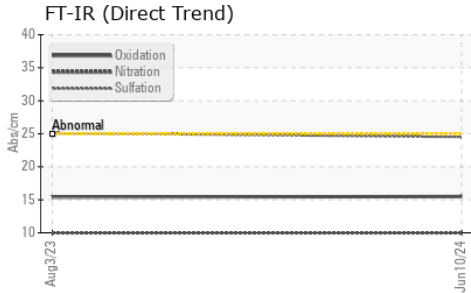
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	7	15	---
Sodium	ppm ASTM D5185(m)	5	6	---
Potassium	ppm ASTM D5185(m) >20	4	4	---

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	2.6	2.1	---
Nitration	Abs/cm ASTM D7624* >20	10.0	10.0	---
Sulfation	Abs/.1mm ASTM D7415* >30	24.5	25.1	---



OIL ANALYSIS REPORT



FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs:1mm ASTM D7414*	>25	15.4	---

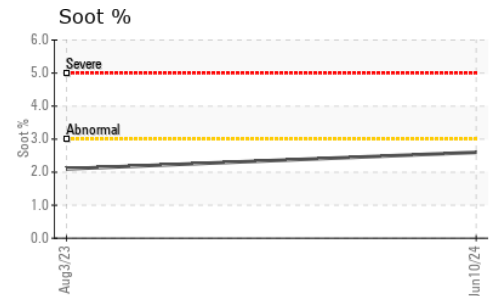
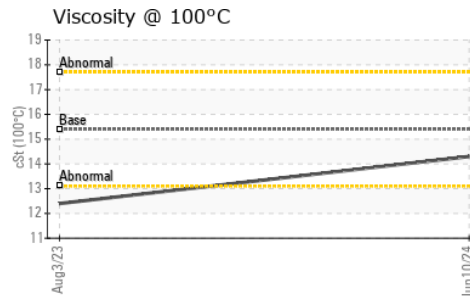
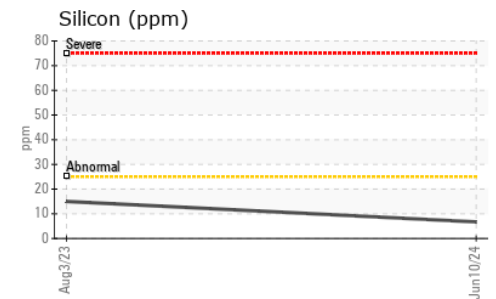
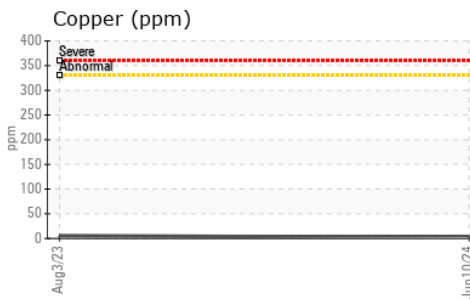
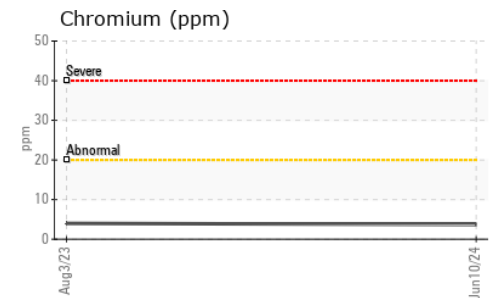
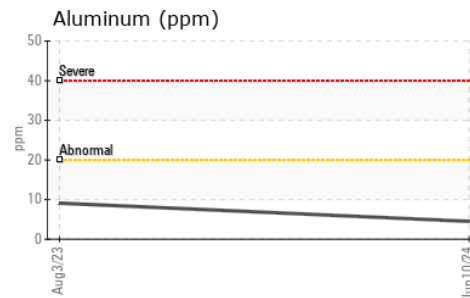
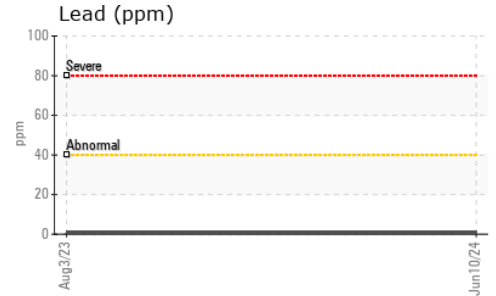
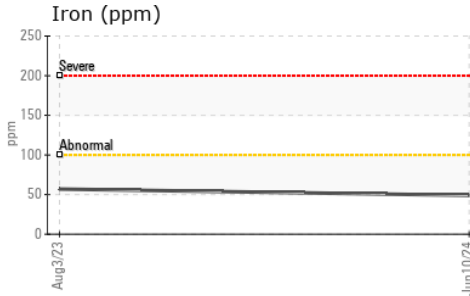
VISUAL

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

FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D7279(m)	15.4	14.3	▲ 12.4

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0124640
Lab Number : 02643068
Unique Number : 5800607
Test Package : MOB 1
Received : 20 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 20 Jun 2024 - Wes Davis

GFL Environmental - 720 - Lafleche - Landfill
 17125 Lafleche Road,
 Moose Creek, ON
 CA K0C 1W0
 Contact: Charles Bergeron
 cbergeron@gflenv.com
 T: (613)538-4853
 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.