



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
221040

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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	history 1	history 2
Sample Number	Client Info	GFL0085912	---	---
Sample Date	Client Info	24 Jun 2023	---	---
Machine Age	kms Client Info	103923	---	---
Oil Age	kms Client Info	0	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		NORMAL	---	---

CONTAMINATION

method	limit/base	current	history 1	history 2
Fuel	WC Method >5	<1.0	---	---
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185(m) >100	88	---	---
Chromium	ppm ASTM D5185(m) >20	6	---	---
Nickel	ppm ASTM D5185(m) >2	<1	---	---
Titanium	ppm ASTM D5185(m) >2	<1	---	---
Silver	ppm ASTM D5185(m) >2	0	---	---
Aluminum	ppm ASTM D5185(m) >25	12	---	---
Lead	ppm ASTM D5185(m) >40	0	---	---
Copper	ppm ASTM D5185(m) >330	4	---	---
Tin	ppm ASTM D5185(m) >15	0	---	---
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	history 1	history 2
Boron	ppm ASTM D5185(m) 2	2	---	---
Barium	ppm ASTM D5185(m) 0	0	---	---
Molybdenum	ppm ASTM D5185(m) 50	52	---	---
Manganese	ppm ASTM D5185(m) 0	<1	---	---
Magnesium	ppm ASTM D5185(m) 950	836	---	---
Calcium	ppm ASTM D5185(m) 1050	1137	---	---
Phosphorus	ppm ASTM D5185(m) 995	1003	---	---
Zinc	ppm ASTM D5185(m) 1180	1118	---	---
Sulfur	ppm ASTM D5185(m) 2600	2354	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185(m) >25	16	---	---
Sodium	ppm ASTM D5185(m)	5	---	---
Potassium	ppm ASTM D5185(m) >20	1	---	---

INFRA-RED

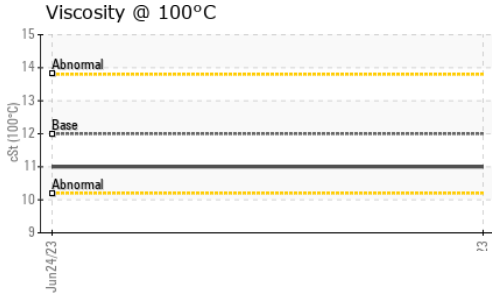
method	limit/base	current	history 1	history 2
Soot %	% ASTM D7844* >3	0.3	---	---
Nitration	Abs/cm ASTM D7624* >20	13.0	---	---
Sulfation	Abs/.1mm ASTM D7415* >30	24.0	---	---

FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm ASTM D7414* >25	26.4	---	---



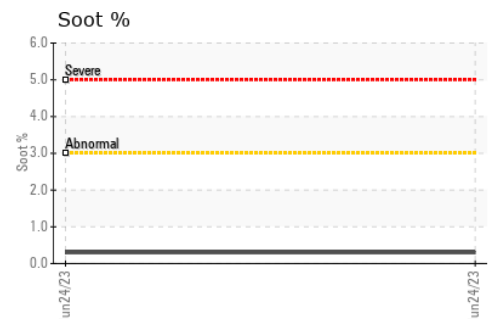
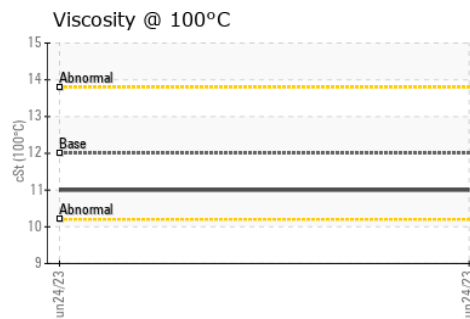
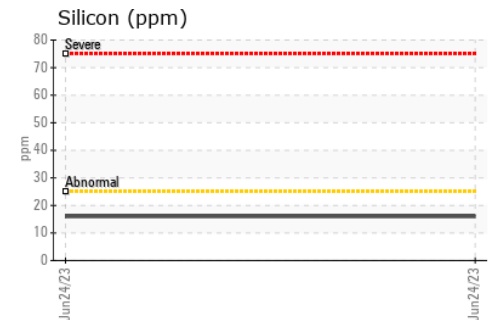
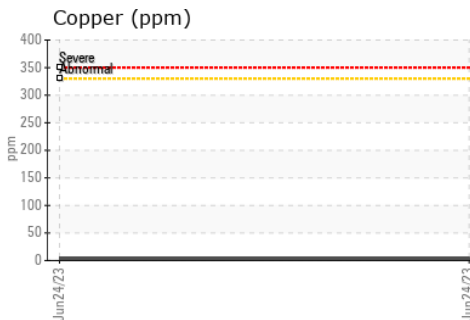
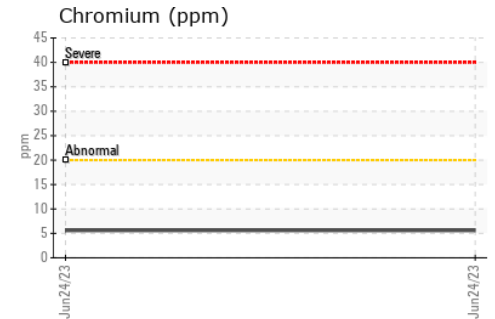
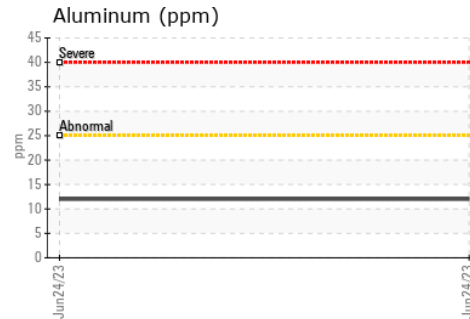
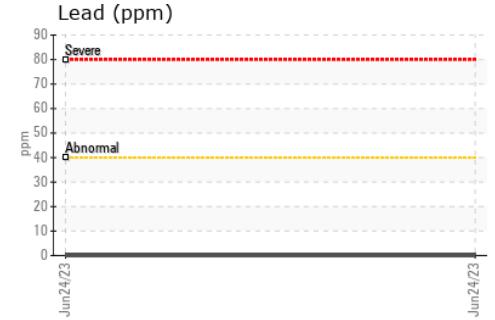
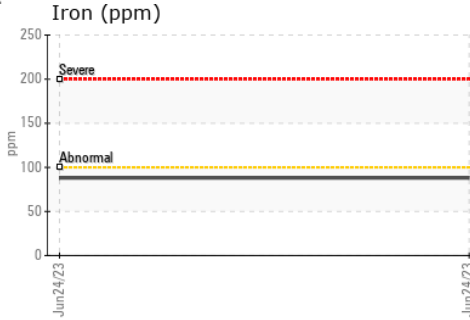
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2
Emulsified Water	scalar	Visual*	>0.2	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.0	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW
Sample No. : GFL0085912 **Received** : 04 Jul 2023
Lab Number : 02567699 **Diagnosed** : 04 Jul 2023
Unique Number : 5604745 **Diagnostician** : Kevin Marson
Test Package : MOB 1

8409 -15th Street NW
 Edmonton, AB
 CA T6P 0B8
 Contact: Tim Greig
 tgreig@gflenv.com

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.

T:
F: