



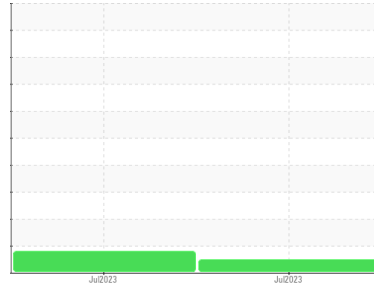
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
EX0358
 Component
Rear Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (24 LTR)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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		GFL0087357	GFL0087357	---
Sample Date	Client Info		28 Jul 2023	28 Jul 2023	---
Machine Age	hrs	Client Info	22000	22000	---
Oil Age	hrs	Client Info	500	500	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	6	14	---
Chromium	ppm	ASTM D5185(m) >20	<1	<1	---
Nickel	ppm	ASTM D5185(m) >4	0	<1	---
Titanium	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m) >3	<1	0	---
Aluminum	ppm	ASTM D5185(m) >20	2	4	---
Lead	ppm	ASTM D5185(m) >40	<1	4	---
Copper	ppm	ASTM D5185(m) >330	3	2	---
Tin	ppm	ASTM D5185(m) >15	0	<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	4	41	---
Barium	ppm	ASTM D5185(m) 0	0	0	---
Molybdenum	ppm	ASTM D5185(m) 60	66	55	---
Manganese	ppm	ASTM D5185(m) 0	<1	<1	---
Magnesium	ppm	ASTM D5185(m) 1010	1013	41	---
Calcium	ppm	ASTM D5185(m) 1070	1156	2658	---
Phosphorus	ppm	ASTM D5185(m) 1150	1076	1104	---
Zinc	ppm	ASTM D5185(m) 1270	1228	1261	---
Sulfur	ppm	ASTM D5185(m) 2060	2476	2983	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	5	4	---
Sodium	ppm	ASTM D5185(m)	22	2	---
Potassium	ppm	ASTM D5185(m) >20	8	<1	---
Glycol	%	ASTM D7922*	0.0	NEG	---

INFRA-RED

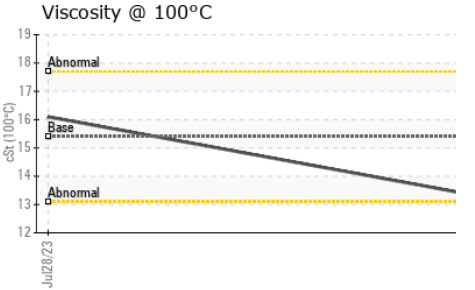
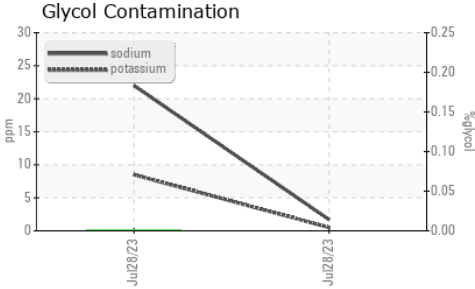
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0	▲ 3.4	---
Nitration	Abs/cm	ASTM D7624* >20	6.5	12.9	---
Sulfation	Abs/.1mm	ASTM D7415* >30	18.4	28.4	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	13.1	17.4	---



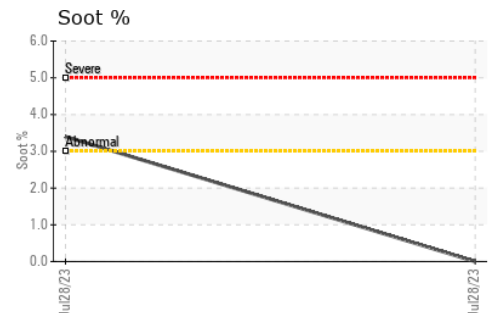
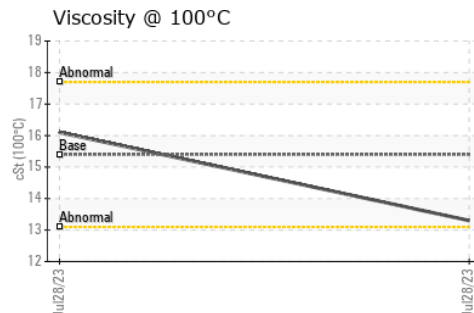
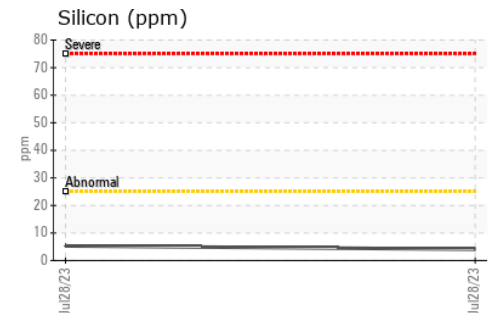
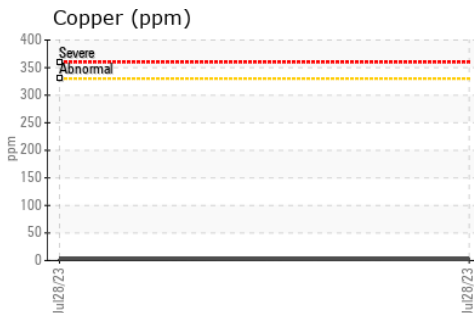
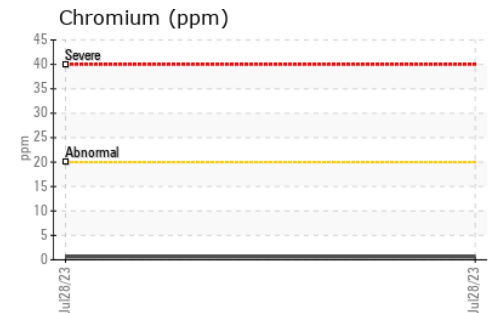
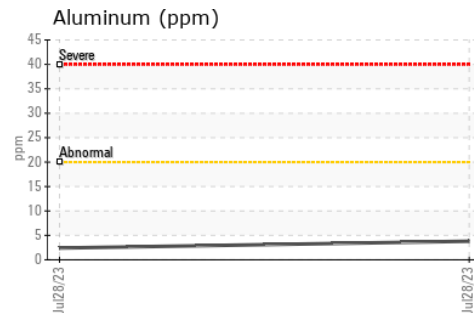
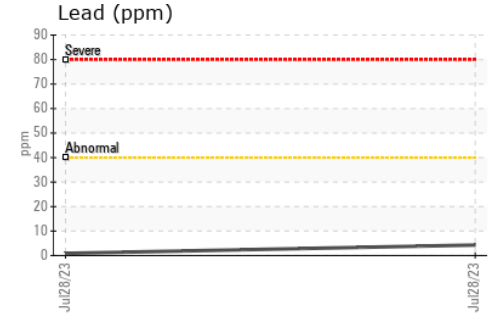
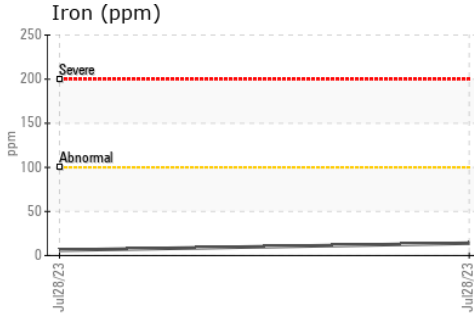
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	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	13.3	16.1

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 720 - Lafleche - Landfill
Sample No. : GFL0087357 **Received** : 11 Aug 2023
Lab Number : 02575340 **Diagnosed** : 11 Aug 2023
Unique Number : 5620391 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol)

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.

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