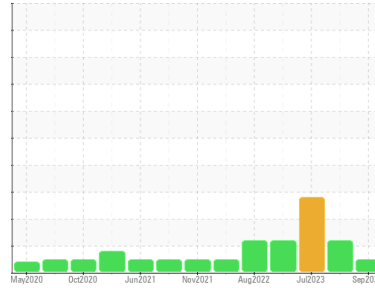




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
722002
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected 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		GFL0053572	GFL0090865	GFL0078496
Sample Date	Client Info		27 Sep 2023	22 Sep 2023	18 Jul 2023
Machine Age	hrs	Client Info	0	0	26704
Oil Age	hrs	Client Info	27131	27095	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			NORMAL	ABNORMAL	SEVERE

CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >120	7	8	29
Chromium	ppm	ASTM D5185(m) >20	0	0	<1
Nickel	ppm	ASTM D5185(m) >5	0	<1	<1
Titanium	ppm	ASTM D5185(m) >2	0	0	1
Silver	ppm	ASTM D5185(m) >2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m) >20	1	2	13
Lead	ppm	ASTM D5185(m) >40	<1	<1	<1
Copper	ppm	ASTM D5185(m) >330	<1	2	3
Tin	ppm	ASTM D5185(m) >15	0	0	<1
Antimony	ppm	ASTM D5185(m)	0	0	0
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	8	28	40
Barium	ppm	ASTM D5185(m) 0	<1	0	0
Molybdenum	ppm	ASTM D5185(m) 60	57	46	24
Manganese	ppm	ASTM D5185(m) 0	0	0	<1
Magnesium	ppm	ASTM D5185(m) 1010	909	682	319
Calcium	ppm	ASTM D5185(m) 1070	1070	1271	1835
Phosphorus	ppm	ASTM D5185(m) 1150	959	839	850
Zinc	ppm	ASTM D5185(m) 1270	1130	994	953
Sulfur	ppm	ASTM D5185(m) 2060	2504	2273	2412
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	7	4	6
Sodium	ppm	ASTM D5185(m)	3	3	5
Potassium	ppm	ASTM D5185(m) >20	1	3	32
Fuel	%	ASTM D7593* >3.0	1.1	▲ 4.1	■ 5.2

INFRA-RED

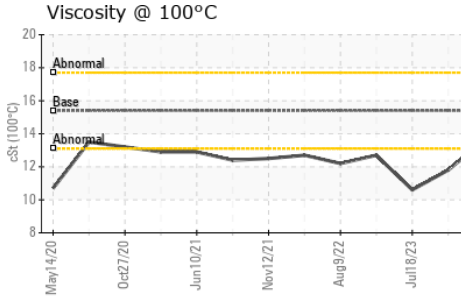
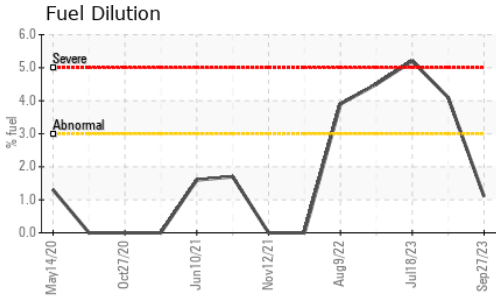
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >4	0	0.4	0.2
Nitration	Abs/cm	ASTM D7624* >20	5.7	6.2	9.4
Sulfation	Abs/.1mm	ASTM D7415* >30	18.1	19.8	21.9

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	14.2	15.5	19.0



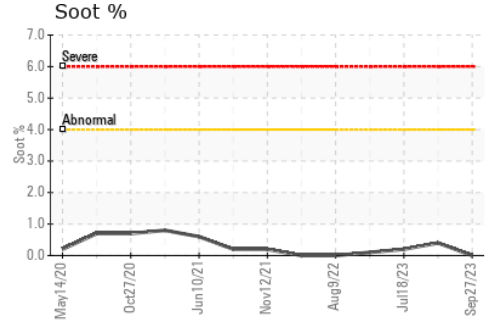
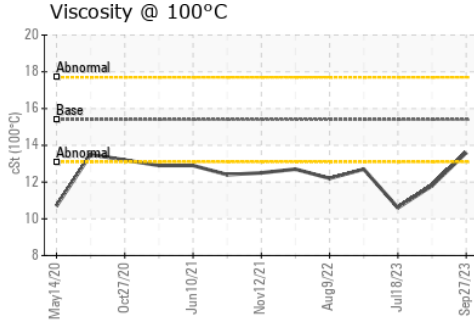
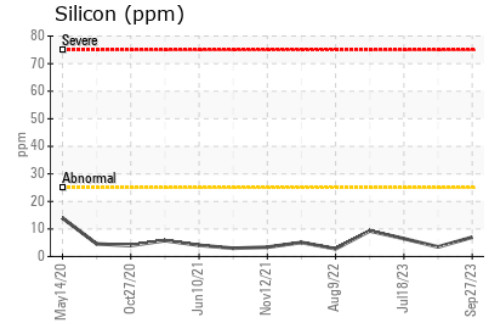
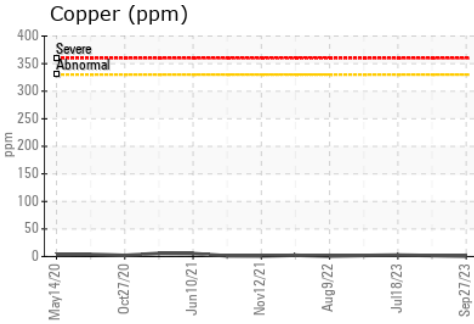
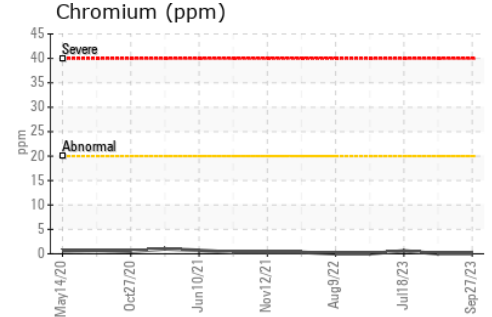
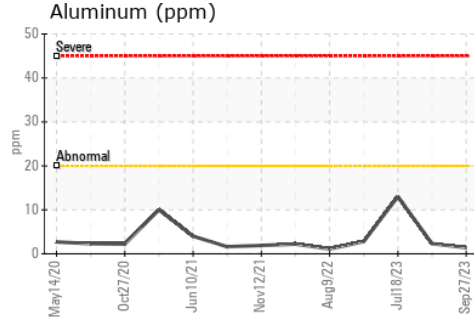
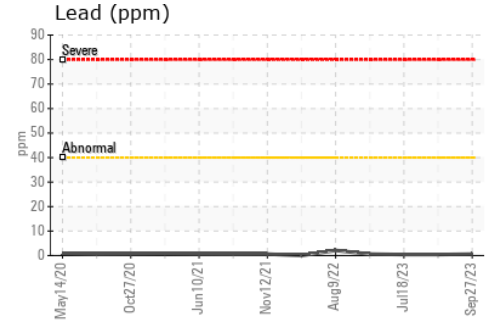
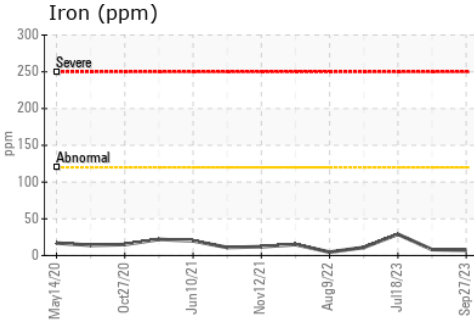
OIL ANALYSIS REPORT



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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.6	▲ 11.8	● 10.6

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 246 - Windsor**
Sample No. : GFL0053572 **Received** : 28 Sep 2023 2700 Deziel Dr
Lab Number : 02585731 **Diagnosed** : 02 Oct 2023 Windsor, ON
Unique Number : 5646796 **Diagnostician** : Wes Davis CA N8W 5H8
Test Package : MOB 1 (Additional Tests: PercentFuel)
 Contact: Dave Varga
 dvarga@gflenv.com
 T: (519)944-8009
 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.