

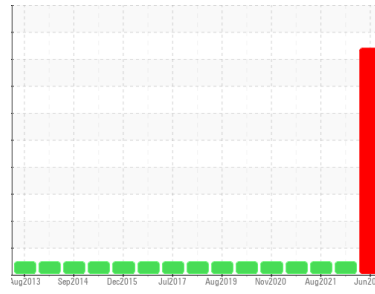


OIL ANALYSIS REPORT



Area
GFL218
 Machine Id
7942
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (20 LTR)

Sample Rating Trend



GLYCOL



DIAGNOSIS

▲ Recommendation

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

Test for glycol is positive. There is a high concentration of glycol present in the oil.

● Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0126624	GFL0059903	GFL0031174
Sample Date	Client Info		26 Jun 2024	23 Oct 2022	04 Aug 2021
Machine Age	hrs	Client Info	124303	0	118462
Oil Age	hrs	Client Info	0	500	0
Oil Changed	Client Info		Changed	N/A	Changed
Sample Status			SEVERE	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >90	51	16	36
Chromium	ppm	ASTM D5185(m) >20	2	<1	1
Nickel	ppm	ASTM D5185(m) >2	<1	<1	<1
Titanium	ppm	ASTM D5185(m) >2	0	<1	0
Silver	ppm	ASTM D5185(m) >2	0	0	<1
Aluminum	ppm	ASTM D5185(m) >20	6	2	2
Lead	ppm	ASTM D5185(m) >40	0	<1	2
Copper	ppm	ASTM D5185(m) >330	4	<1	1
Tin	ppm	ASTM D5185(m) >15	<1	<1	<1
Antimony	ppm	ASTM D5185(m)	0	<1	<1
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	4	2	2
Barium	ppm	ASTM D5185(m) 0	<1	0	0
Molybdenum	ppm	ASTM D5185(m) 60	59	58	60
Manganese	ppm	ASTM D5185(m) 0	1	<1	<1
Magnesium	ppm	ASTM D5185(m) 1010	922	957	1033
Calcium	ppm	ASTM D5185(m) 1070	1018	1068	1068
Phosphorus	ppm	ASTM D5185(m) 1150	937	1075	1068
Zinc	ppm	ASTM D5185(m) 1270	1160	1178	1251
Sulfur	ppm	ASTM D5185(m) 2060	2318	2571	2376
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

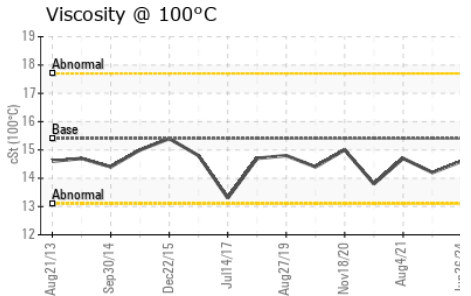
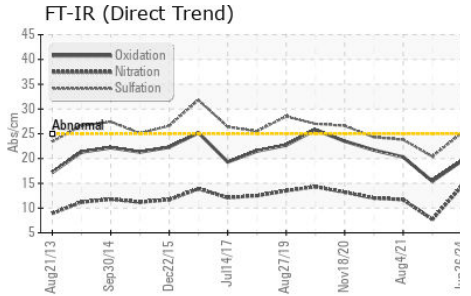
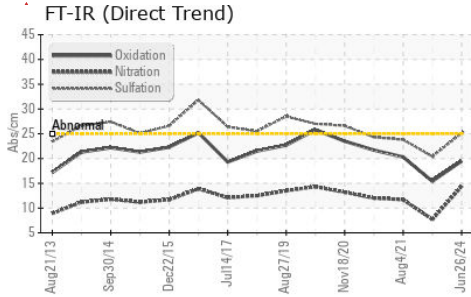
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	5	4	4
Sodium	ppm	ASTM D5185(m)	419	8	25
Potassium	ppm	ASTM D5185(m) >20	9	1	3
Glycol	%	ASTM D7922*	0.206	NEG	NEG

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >6	1.8	0.3	1.1
Nitration	Abs/cm	ASTM D7624* >20	14.4	7.7	11.7
Sulfation	Abs/.1mm	ASTM D7415* >30	25.1	20.4	23.8



OIL ANALYSIS REPORT

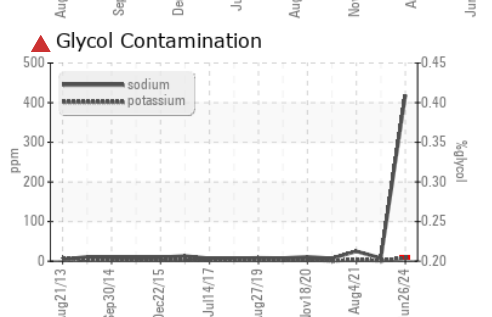
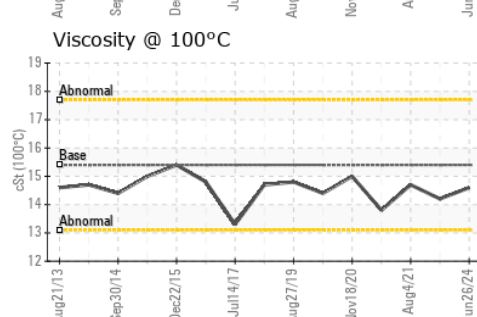
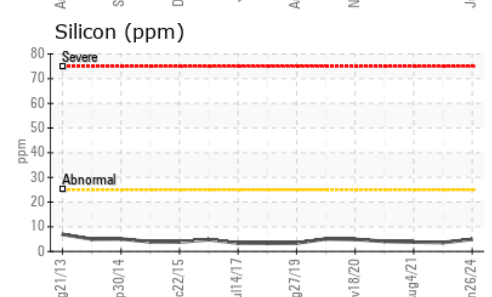
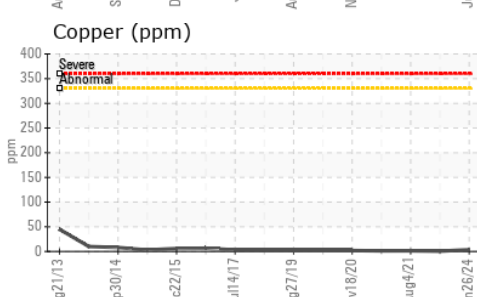
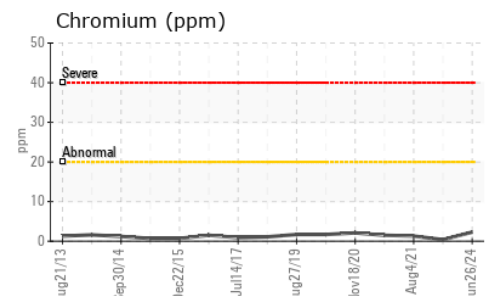
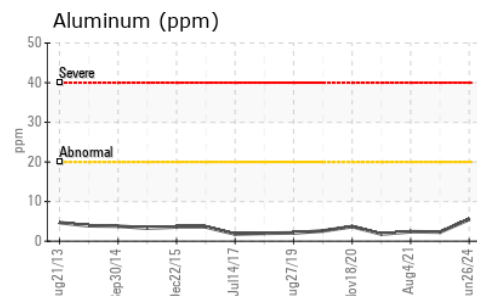
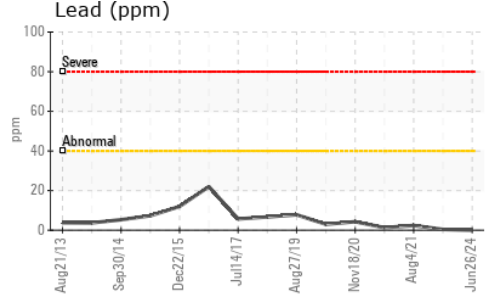
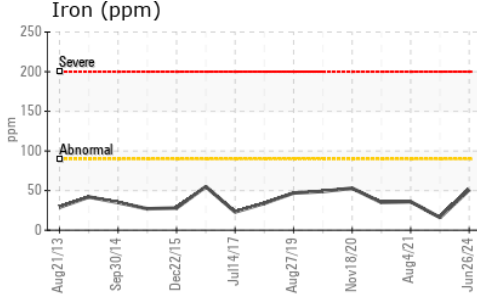


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	19.5	15.4	20.3

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	14.6	14.2	14.7

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0126624
Lab Number : 02644548
Unique Number : 5802087
Test Package : MOB 1 (Additional Tests: Glycol)

GFL Environmental - 225 - COT(D2)
 20 Brydon Drive
 Etobicoke, ON
 CA M9W 5R6
 Contact: Rick Philip
 rphilip@gflenv.com
 T: (416)745-8080
 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.