



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
7799
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0120092	GFL0101087	GFL0097007
Sample Date		Client Info		13 May 2024	28 Nov 2023	13 Oct 2023
Machine Age	kms	Client Info		118618	112553	111978
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ATTENTION	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>165	11	18	29
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	1	2	4
Lead	ppm	ASTM D5185(m)	>150	0	6	29
Copper	ppm	ASTM D5185(m)	>90	3	8	23
Tin	ppm	ASTM D5185(m)	>5	0	<1	2
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

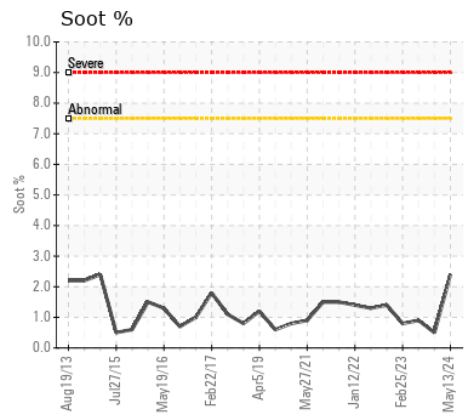
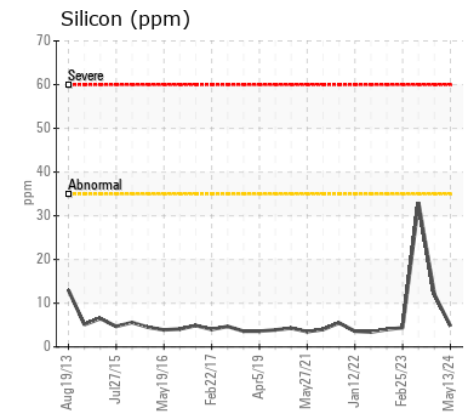
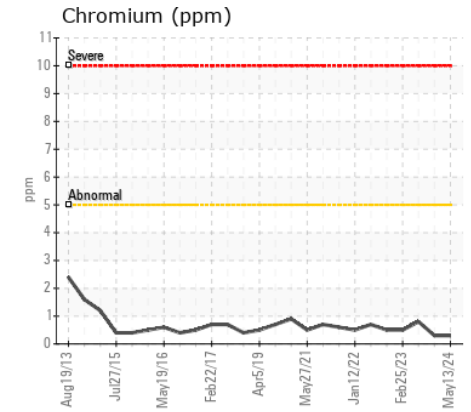
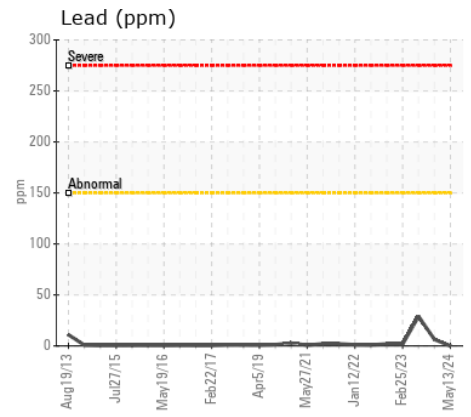
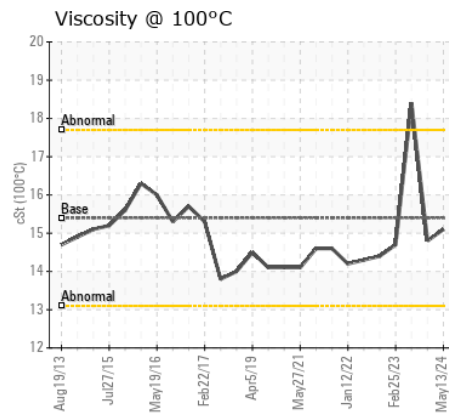
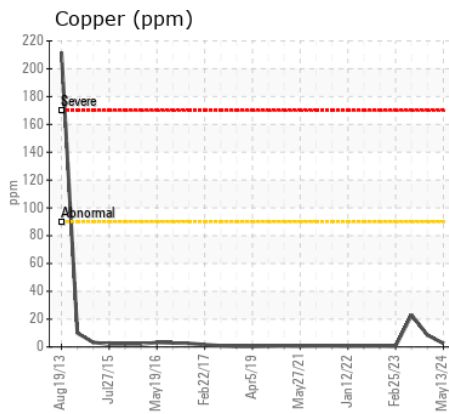
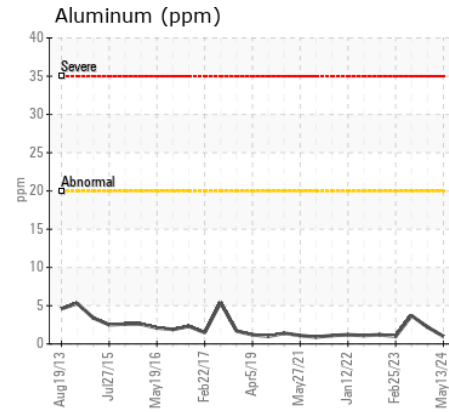
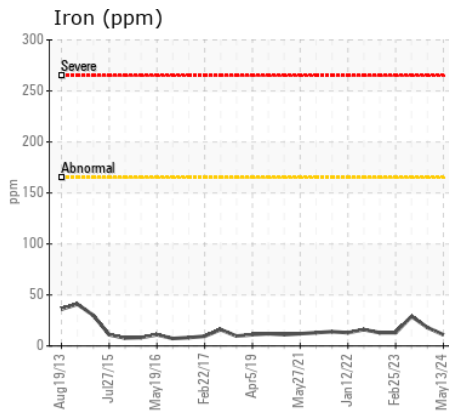
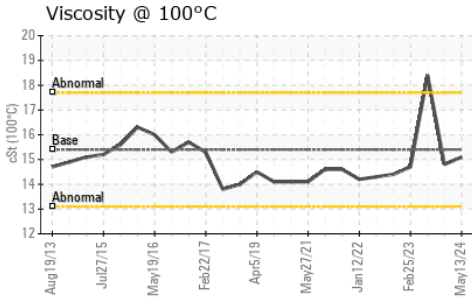
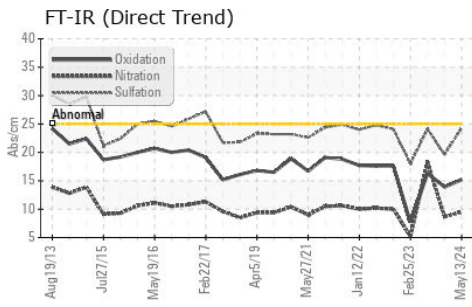
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	5	12	33
Potassium	ppm	ASTM D5185(m)	>20	2	9	▲ 44
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	▲ 0.034
Soot %	%	ASTM D7844*	>7.5	2.4	0.5	0.9
Nitration	Abs/cm	ASTM D7624*	>20	9.5	8.7	18.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.3	19.6	24.1
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		48	● 1058	● 4030
Boron	ppm	ASTM D5185(m)	0	4	2	4
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	58	60	67
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	913	887	641
Calcium	ppm	ASTM D5185(m)	1070	1018	1049	1163
Phosphorus	ppm	ASTM D5185(m)	1150	998	1024	950
Zinc	ppm	ASTM D5185(m)	1270	1148	1139	1082
Sulfur	ppm	ASTM D5185(m)	2060	2462	2569	2565
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.2	13.9	16.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	15.1	14.8	▲ 18.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0120092
Lab Number : 02635979
Unique Number : 5785141
Test Package : MOB 1

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.