



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
7777
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		GFL0124661	GFL0103079	GFL0090562
Sample Date		Client Info		13 Jun 2024	19 Dec 2023	16 Aug 2023
Machine Age	kms	Client Info		168334	11532	180370
Oil Age	kms	Client Info		180370	0	26700
Filter Age	kms	Client Info		0	0	26700
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	5	17	8
Chromium	ppm	ASTM D5185(m)	>5	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	1	<1
Lead	ppm	ASTM D5185(m)	>150	0	1	<1
Copper	ppm	ASTM D5185(m)	>90	<1	1	<1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

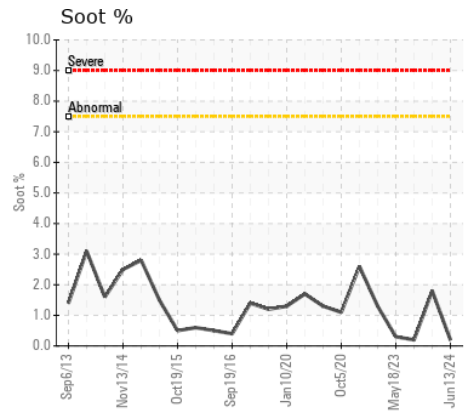
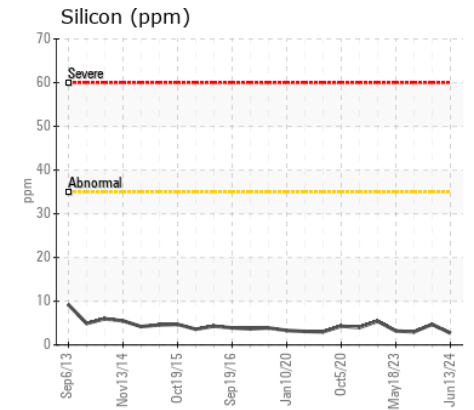
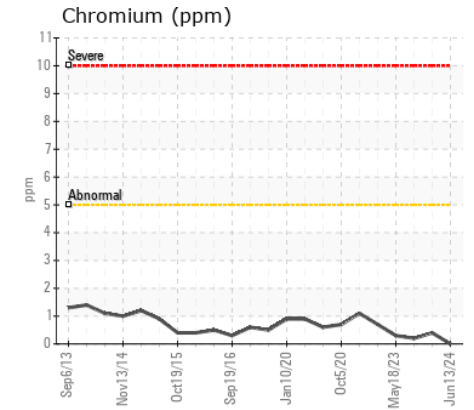
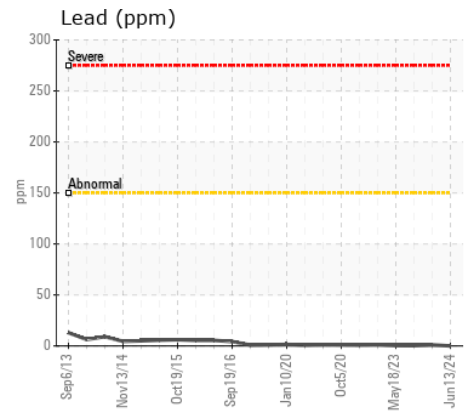
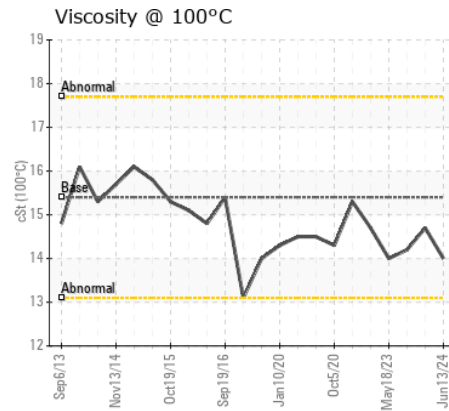
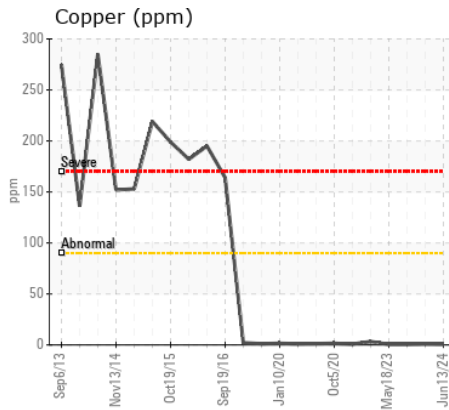
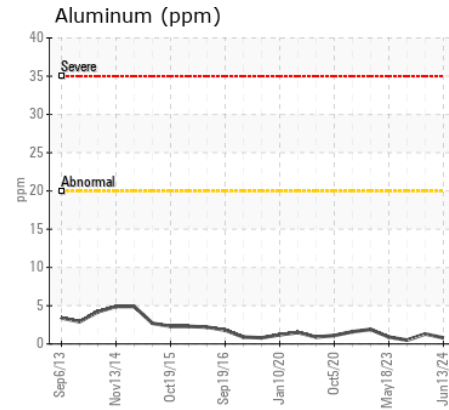
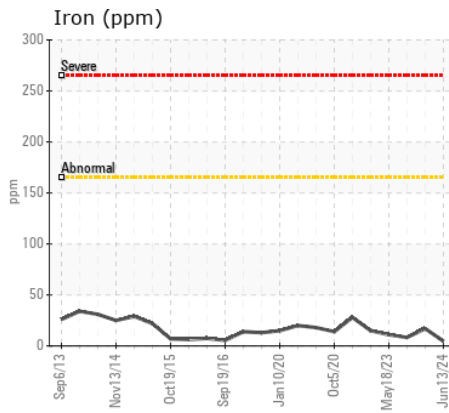
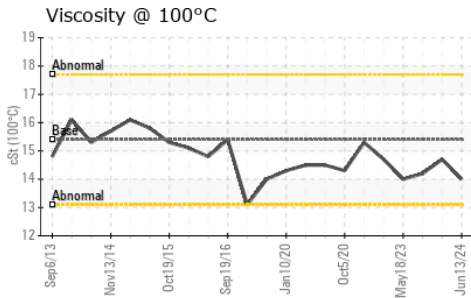
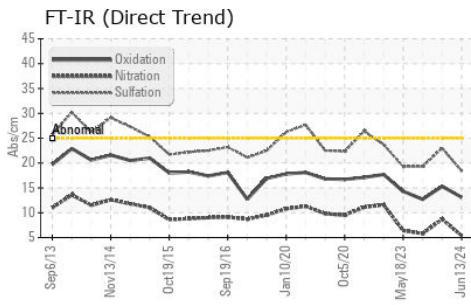
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	3	5	3
Potassium	ppm	ASTM D5185(m)	>20	0	3	1
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	0.0
Soot %	%	ASTM D7844*	>7.5	0.2	1.8	0.2
Nitration	Abs/cm	ASTM D7624*	>20	5.4	8.7	5.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.4	23.0	19.3
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)		12	255	121
Boron	ppm	ASTM D5185(m)	0	3	6	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	57	60	60
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	938	939	993
Calcium	ppm	ASTM D5185(m)	1070	1036	1108	1089
Phosphorus	ppm	ASTM D5185(m)	1150	982	1014	1096
Zinc	ppm	ASTM D5185(m)	1270	1185	1168	1208
Sulfur	ppm	ASTM D5185(m)	2060	2587	2677	2676
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.1	15.3	12.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.0	14.7	14.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0124661
Lab Number : 02642279
Unique Number : 5799818
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.