



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
7757
 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		GFL0118295	GFL0101076	GFL0090566
Sample Date		Client Info		16 Apr 2024	04 Nov 2023	03 Aug 2023
Machine Age	kms	Client Info		143551	138572	135448
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
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	10	13	20
Chromium	ppm	ASTM D5185(m)	>5	0	<1	1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
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	1	1
Lead	ppm	ASTM D5185(m)	>150	0	2	7
Copper	ppm	ASTM D5185(m)	>90	<1	2	4
Tin	ppm	ASTM D5185(m)	>5	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

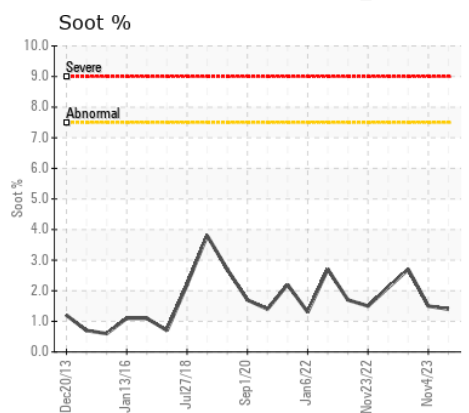
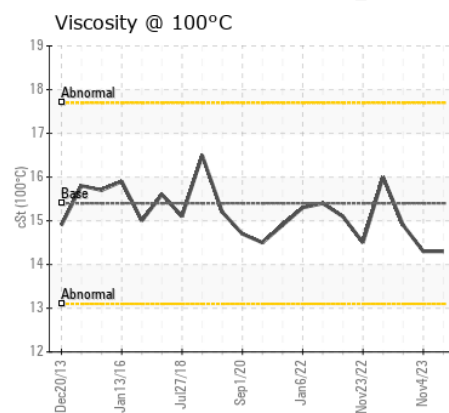
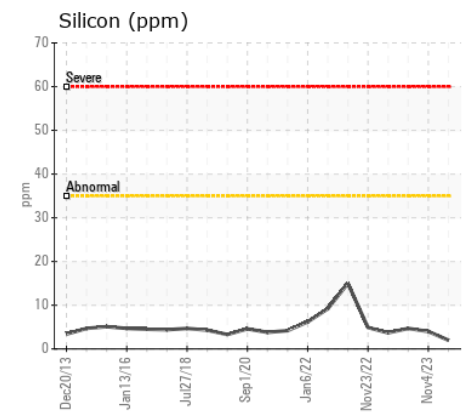
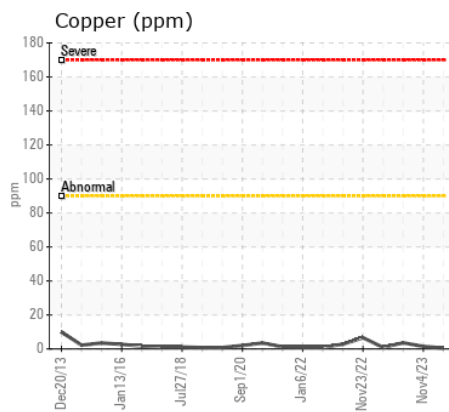
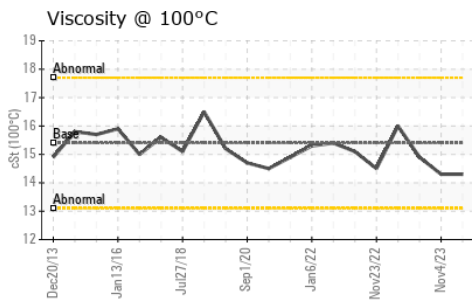
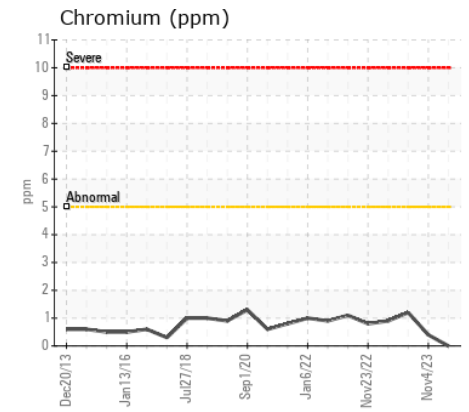
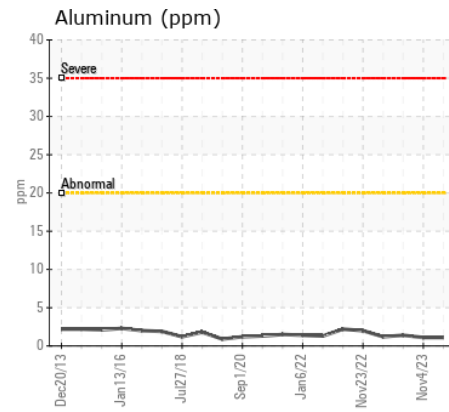
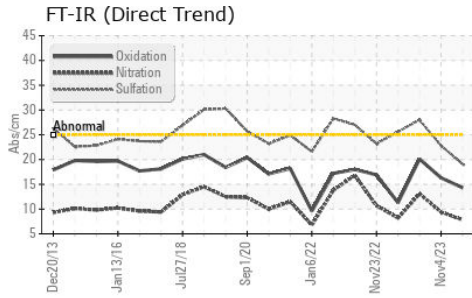
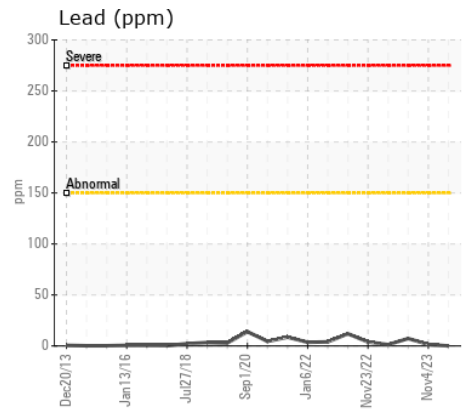
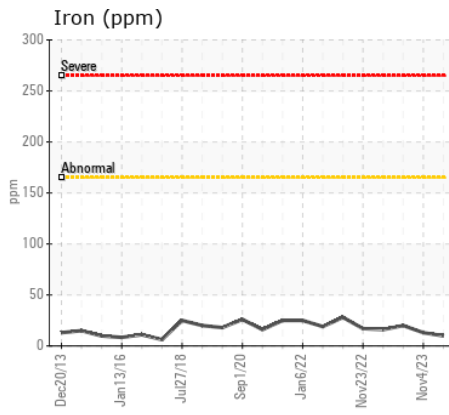
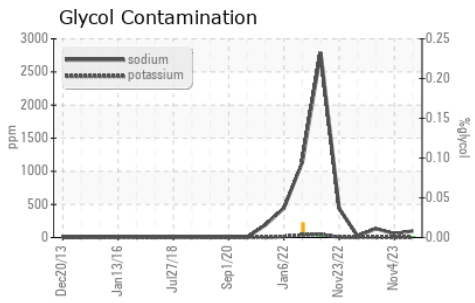
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	2	4	5
Potassium	ppm	ASTM D5185(m)	>20	1	<1	2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	0.0
Soot %	%	ASTM D7844*	>7.5	1.4	1.5	2.7
Nitration	Abs/cm	ASTM D7624*	>20	7.8	9.4	13.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.1	22.8	28.0
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)		100	57	135
Boron	ppm	ASTM D5185(m)	0	3	2	3
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	58	62	62
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	944	976	992
Calcium	ppm	ASTM D5185(m)	1070	1009	1094	1055
Phosphorus	ppm	ASTM D5185(m)	1150	977	996	1045
Zinc	ppm	ASTM D5185(m)	1270	1149	1216	1205
Sulfur	ppm	ASTM D5185(m)	2060	2518	2493	2454
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.3	16.3	20.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.3	14.3	14.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0118295
Lab Number : 02629846
Unique Number : 5762978
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.