



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
501097
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0115563	GFL0090893	GFL0063871
Sample Date		Client Info		04 Apr 2024	19 Oct 2023	10 Nov 2022
Machine Age	kms	Client Info		641673	594637	505286
Oil Age	kms	Client Info		47036	0	0
Filter Age	kms	Client Info		47036	0	0
Oil Changed		Client Info		Not Chngd	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	40	30	31
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	5	5	2
Lead	ppm	ASTM D5185(m)	>40	1	2	1
Copper	ppm	ASTM D5185(m)	>330	8	9	7
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

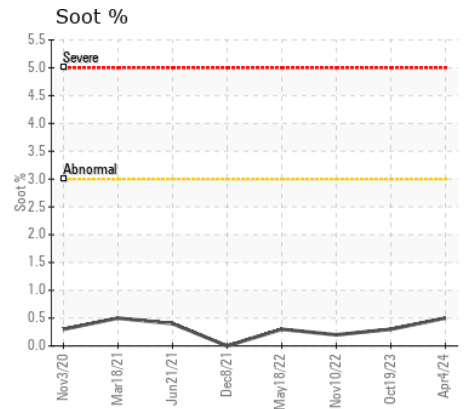
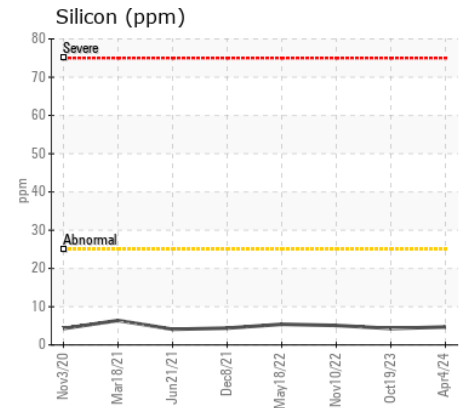
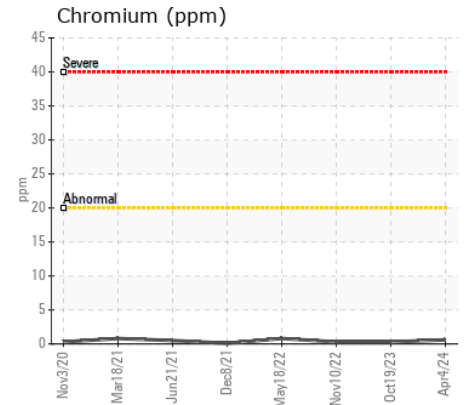
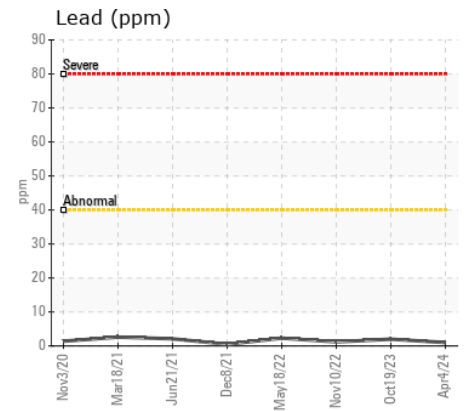
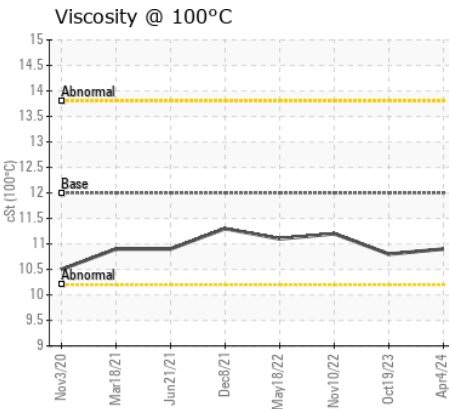
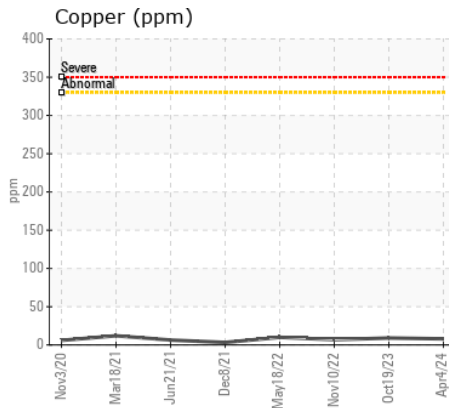
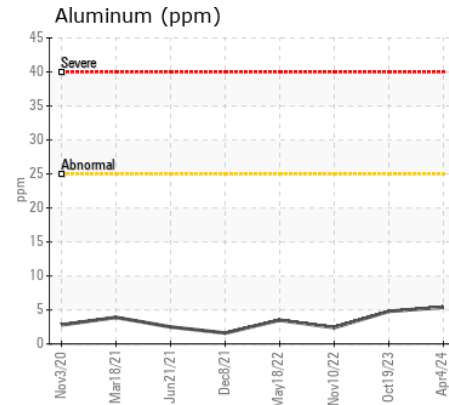
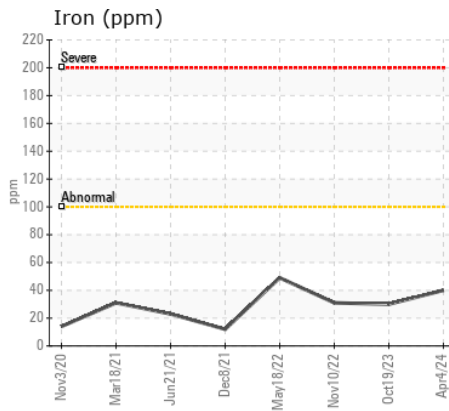
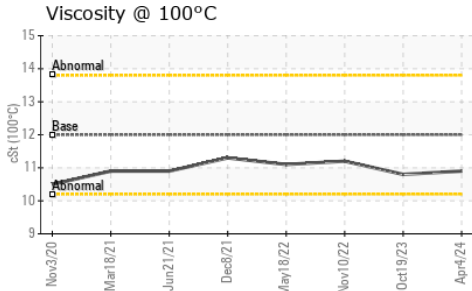
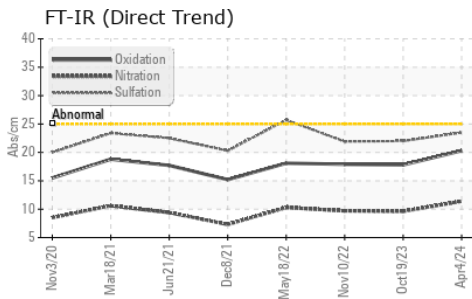
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	4	5
Potassium	ppm	ASTM D5185(m)	>20	3	4	1
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.5	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	11.4	9.6	9.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.5	22.0	21.9
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)		6	6	4
Boron	ppm	ASTM D5185(m)	2	1	4	2
Barium	ppm	ASTM D5185(m)	0	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	62	64	61
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	987	914	969
Calcium	ppm	ASTM D5185(m)	1050	1086	1125	1126
Phosphorus	ppm	ASTM D5185(m)	995	949	891	1021
Zinc	ppm	ASTM D5185(m)	1180	1218	1151	1193
Sulfur	ppm	ASTM D5185(m)	2600	2120	2197	2370
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.3	17.8	17.9
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	10.9	10.8	11.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0115563
Lab Number : 02627267
Unique Number : 5760399
Test Package : MOB 1
Received : 08 Apr 2024
Tested : 08 Apr 2024
Diagnosed : 08 Apr 2024 - Wes Davis

GFL Environmental - 245 - BJ Bear
 2616 Cedar Creek Road
 Ayr, ON
 CA N0B 1E0
 Contact: Erik Prpic
 eppric@gflenv.com
 T: (519)570-9000
 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.