



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
226086
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0107274	GFL0056116	GFL0056108
Sample Date		Client Info		17 Apr 2024	21 Nov 2022	26 Jul 2022
Machine Age	hrs	Client Info		188965	600	2865
Oil Age	hrs	Client Info		0	600	600
Filter Age	hrs	Client Info		0	600	600
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)	>100	21	13	33
Chromium	ppm	ASTM D5185(m)	>20	4	1	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	9	17	15
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	4	3	6
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

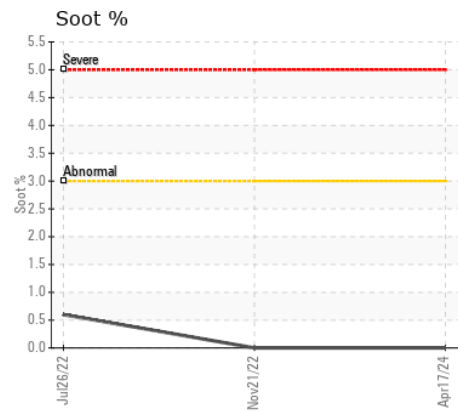
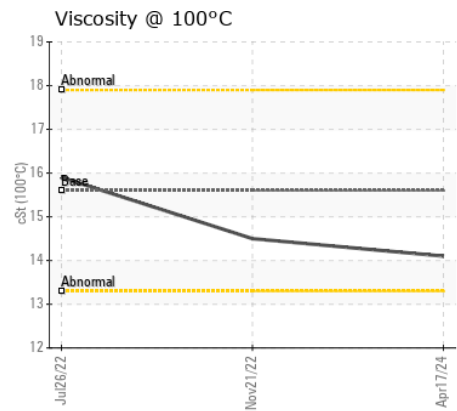
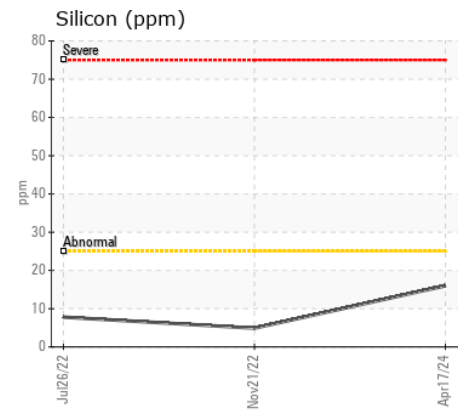
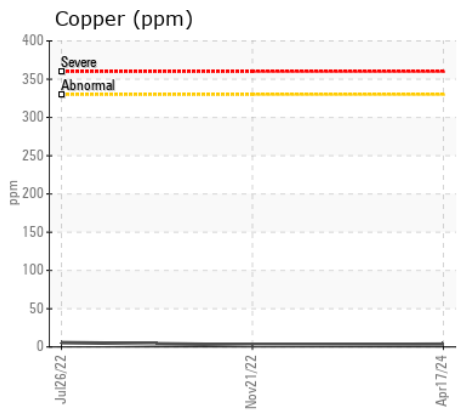
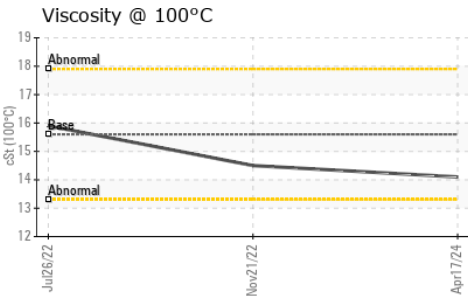
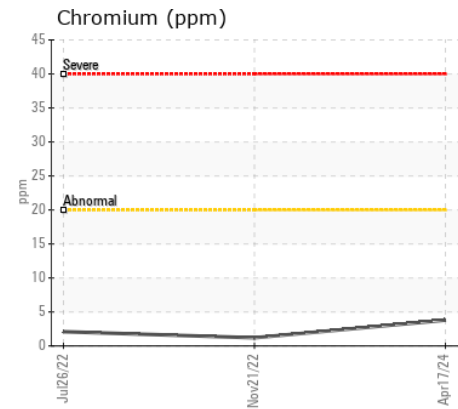
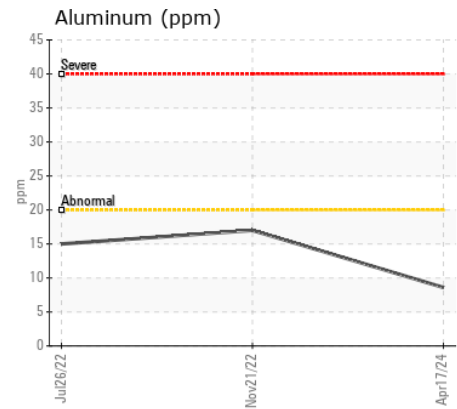
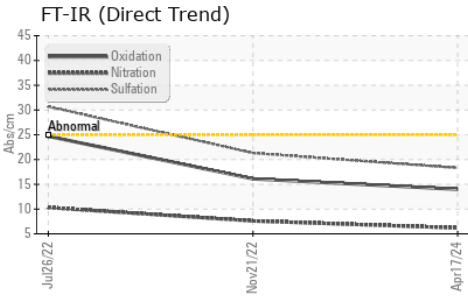
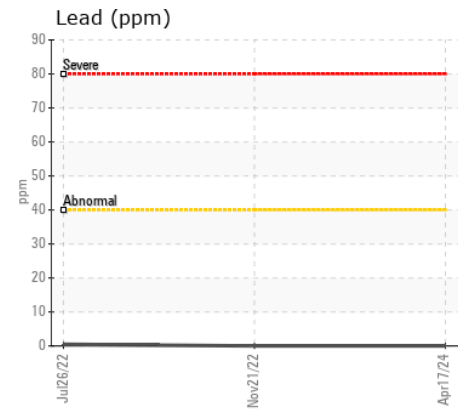
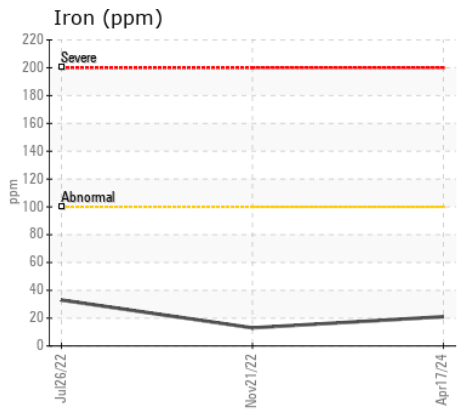
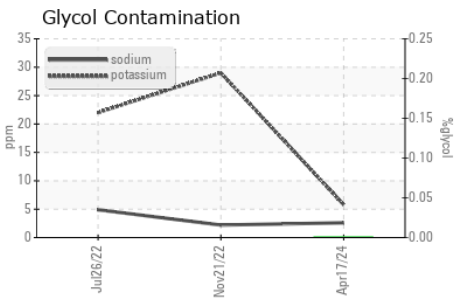
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	16	5	8
Potassium	ppm	ASTM D5185(m)	>20	6	29	22
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0.6
Nitration	Abs/cm	ASTM D7624*	>20	6.2	7.6	10.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.3	21.3	30.7
Silt	scalar	Visual*	NONE	VLITE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
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)		3	2	5
Boron	ppm	ASTM D5185(m)	0	3	5	34
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	60	53	2
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	973	870	19
Calcium	ppm	ASTM D5185(m)	1070	1054	1261	2371
Phosphorus	ppm	ASTM D5185(m)	1150	996	1062	933
Zinc	ppm	ASTM D5185(m)	1270	1167	1189	1186
Sulfur	ppm	ASTM D5185(m)	2060	2514	2607	2771
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.0	16.1	24.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.1	14.5	15.9



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0107274
Lab Number : 02631547
Unique Number : 5772700
Test Package : MOB 1 (Additional Tests: Glycol, Visual)

GFL Environmental - 250 - Sault Ste Marie Hauling + MRF
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 Sault Ste. Marie, ON
 CA P6B 4T6
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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.