



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
4561
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (36)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0100334	GFL0100320	GFL0064979
Sample Date		Client Info		05 Apr 2024	29 Jan 2024	10 Oct 2023
Machine Age	hrs	Client Info		27855	27461	26972
Oil Age	hrs	Client Info		394	489	455
Filter Age	hrs	Client Info		394	489	455
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	33	34	37
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	2	1
Lead	ppm	ASTM D5185(m)	>40	2	3	4
Copper	ppm	ASTM D5185(m)	>330	11	13	16
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	VLITE	---

CONTAMINATION

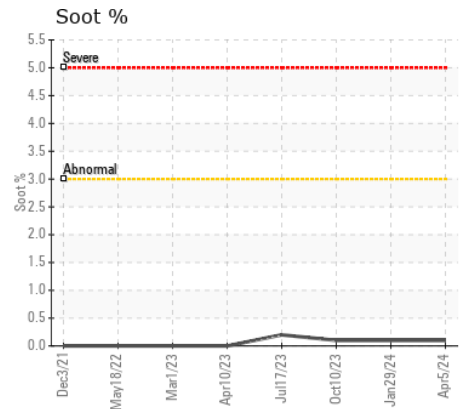
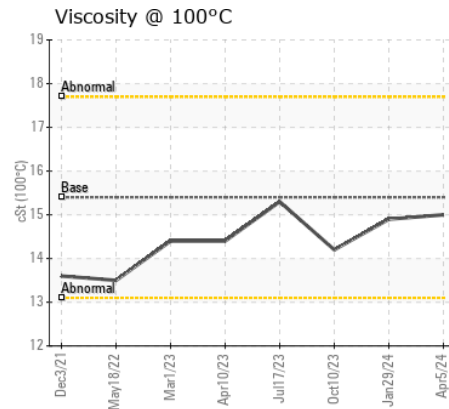
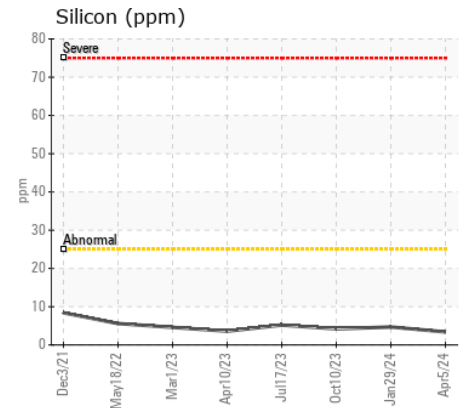
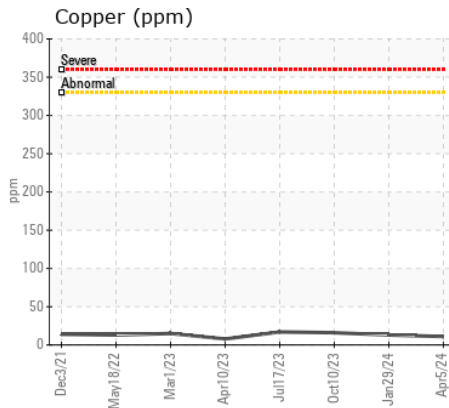
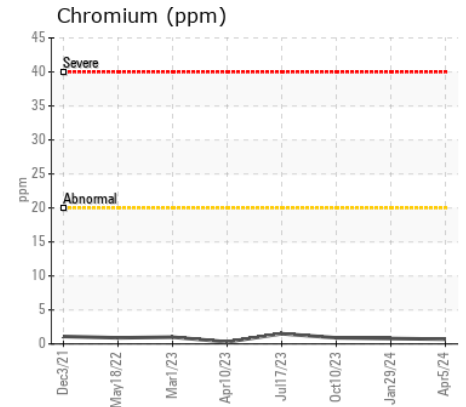
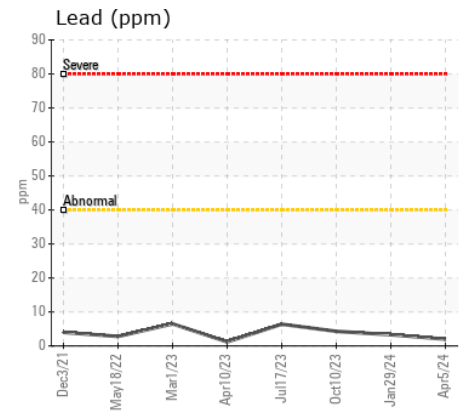
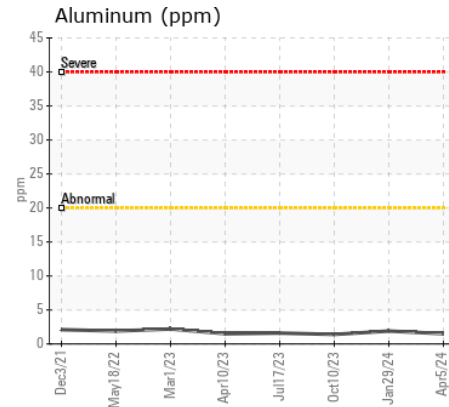
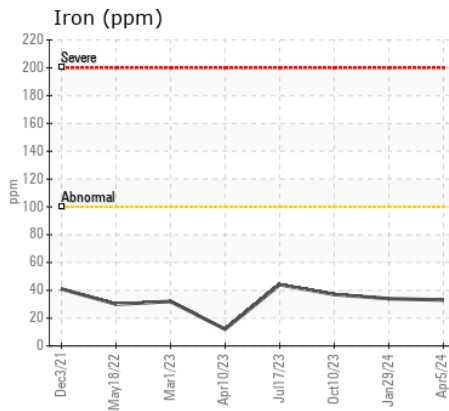
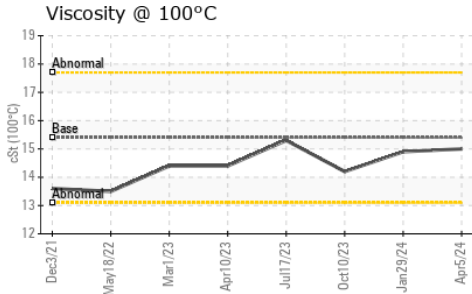
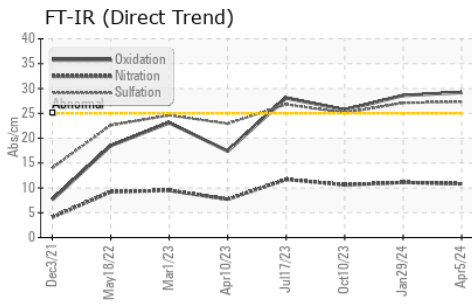
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	5	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.1	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	10.8	11.1	10.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.3	27.1	25.1
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
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)		2	2	2
Boron	ppm	ASTM D5185(m)	0	2	2	10
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	62	63	64
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	1023	1032	1020
Calcium	ppm	ASTM D5185(m)	1070	1150	1132	1131
Phosphorus	ppm	ASTM D5185(m)	1150	991	1032	1011
Zinc	ppm	ASTM D5185(m)	1270	1279	1269	1269
Sulfur	ppm	ASTM D5185(m)	2060	2432	2556	2414
Oxidation	Abs/.1mm	ASTM D7414*	>25	29.2	28.6	25.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	15.0	14.9	14.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100334 **Received** : 10 Apr 2024
Lab Number : 02627786 **Tested** : 10 Apr 2024
Unique Number : 5760918 **Diagnosed** : 10 Apr 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Visual)

GFL Environmental - 556 - Whitecourt
 4138 - 42 Street,
 Whitecourt, AB
 CA T7S 1P1
 Contact: Kash Wagoner
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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.