



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1142
 Component
Diesel Engine
 Fluid
PETRO CANADA 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0125072	GFL0090756	GFL0090758
Sample Date		Client Info		04 Jun 2024	01 Feb 2024	29 Nov 2023
Machine Age	hrs	Client Info		22812	22169	21998
Oil Age	hrs	Client Info		600	600	600
Filter Age	hrs	Client Info		600	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)	>165	25	12	39
Chromium	ppm	ASTM D5185(m)	>5	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
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	3
Lead	ppm	ASTM D5185(m)	>150	2	<1	4
Copper	ppm	ASTM D5185(m)	>90	1	<1	2
Tin	ppm	ASTM D5185(m)	>5	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

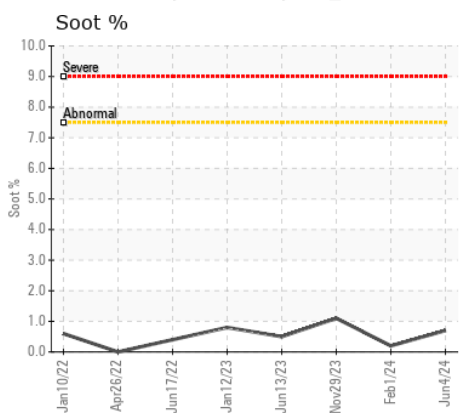
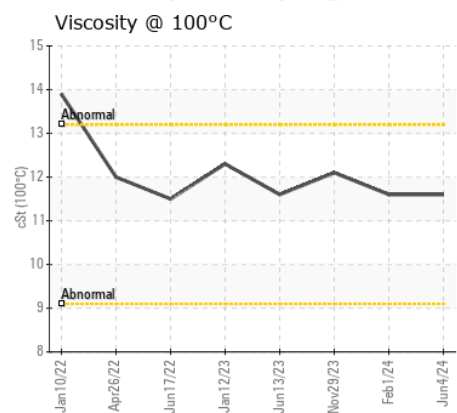
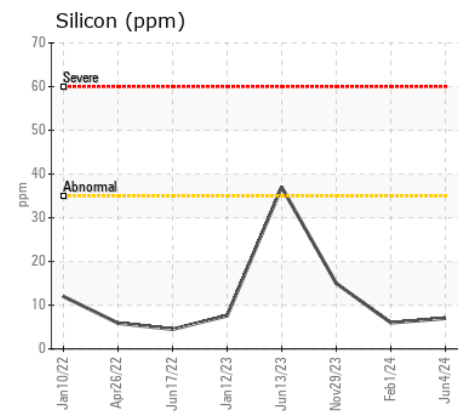
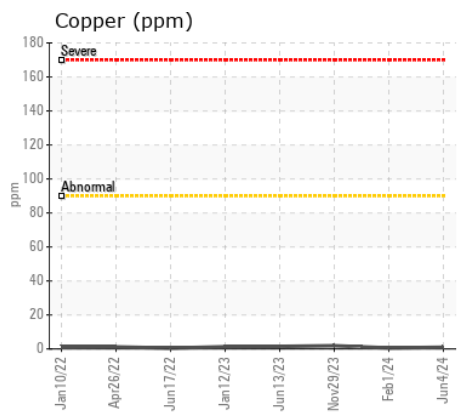
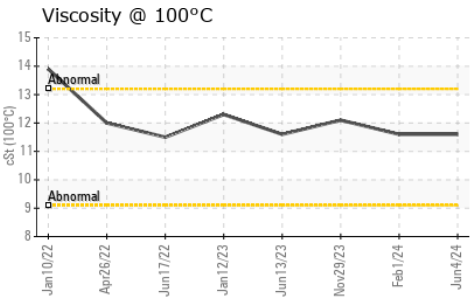
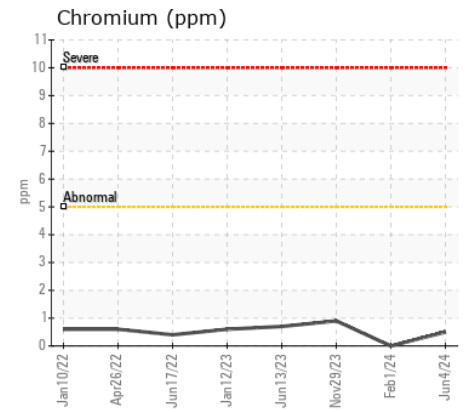
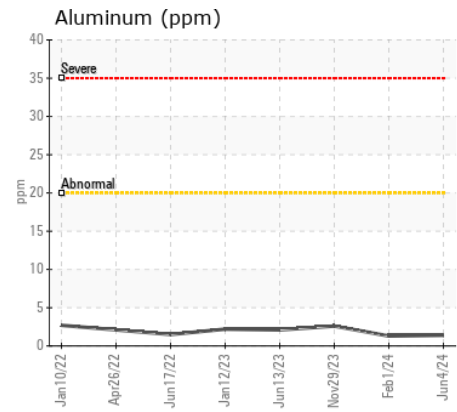
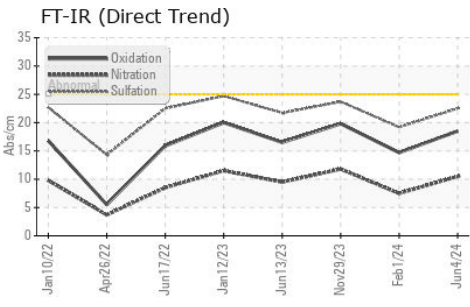
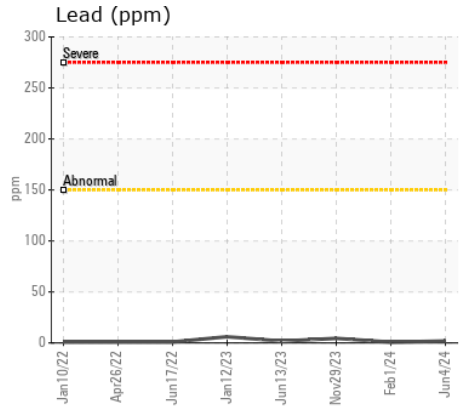
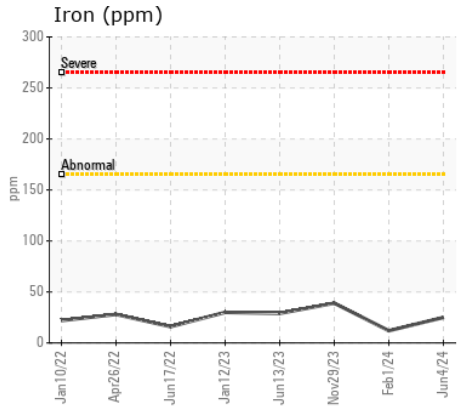
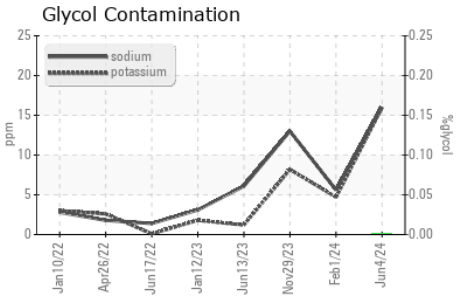
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	7	6	15
Potassium	ppm	ASTM D5185(m)	>20	16	5	8
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	NEG
Soot %	%	ASTM D7844*	>7.5	0.7	0.2	1.1
Nitration	Abs/cm	ASTM D7624*	>20	10.5	7.5	11.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.5	19.2	23.7
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)		16	6	13
Boron	ppm	ASTM D5185(m)		3	17	1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		64	47	68
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)		1003	913	1086
Calcium	ppm	ASTM D5185(m)		1115	1132	1174
Phosphorus	ppm	ASTM D5185(m)		1060	961	1107
Zinc	ppm	ASTM D5185(m)		1248	1091	1313
Sulfur	ppm	ASTM D5185(m)		2496	2697	2663
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.5	14.7	19.8
Visc @ 100°C	cSt	ASTM D7279(m)		11.6	11.6	12.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0125072
Lab Number : 02642813
Unique Number : 5800352
Test Package : MOB 1 (Additional Tests: Glycol)
Received : 19 Jun 2024
Tested : 19 Jun 2024
Diagnosed : 19 Jun 2024 - Wes Davis

GFL Environmental - 504 - Edmonton
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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.