



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
9975
 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		GFL0119023	GFL0102600	GFL0101715
Sample Date		Client Info		19 Jun 2024	22 Feb 2024	21 Nov 2023
Machine Age	kms	Client Info		572821	0	541584
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>110	21	12	18
Chromium	ppm	ASTM D5185(m)	>4	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	2	2	3
Lead	ppm	ASTM D5185(m)	>45	0	6	<1
Copper	ppm	ASTM D5185(m)	>85	<1	▲ 182	2
Tin	ppm	ASTM D5185(m)	>4	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

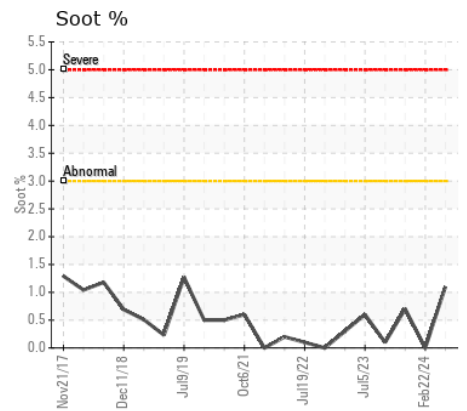
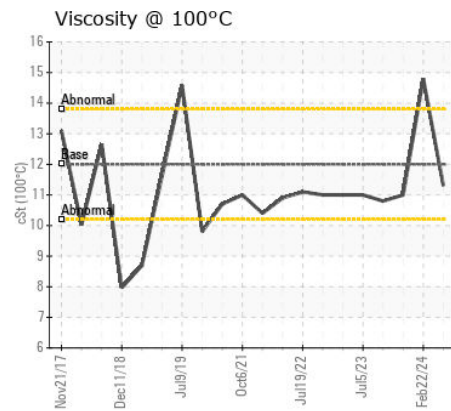
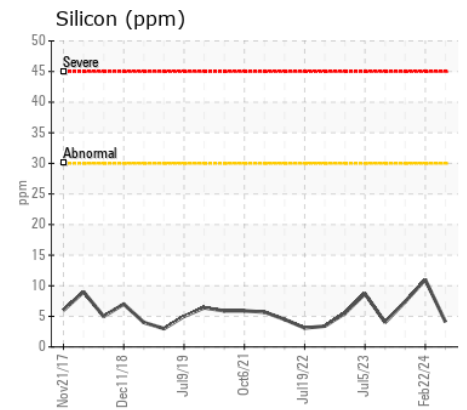
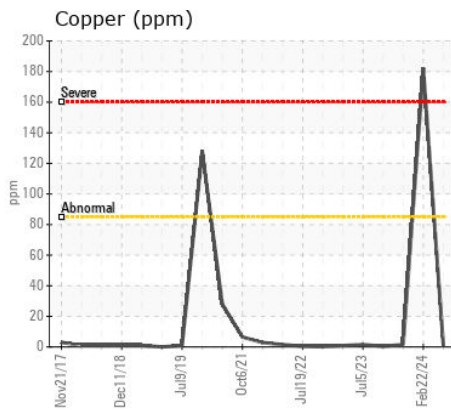
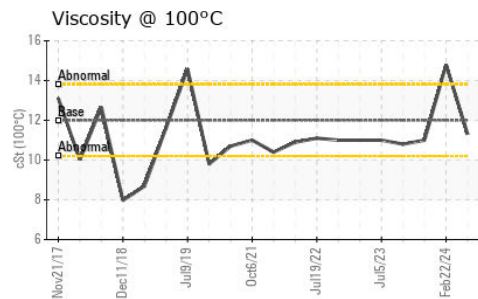
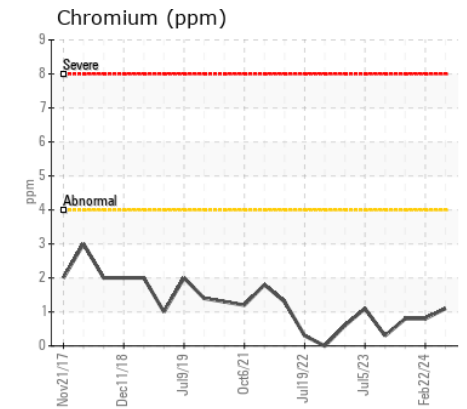
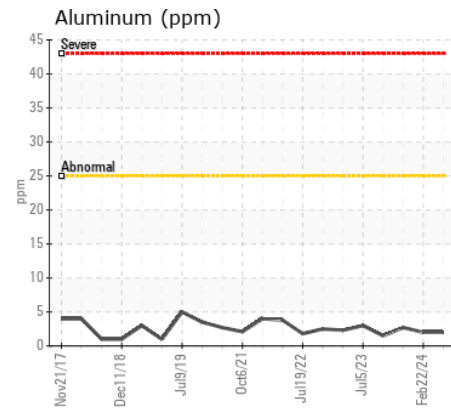
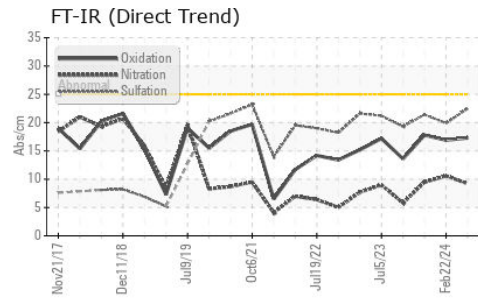
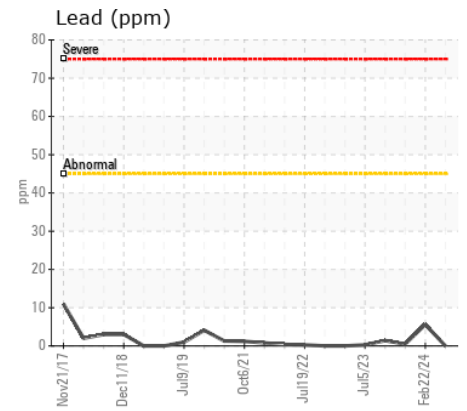
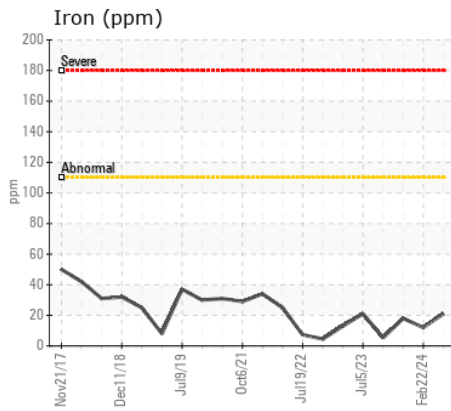
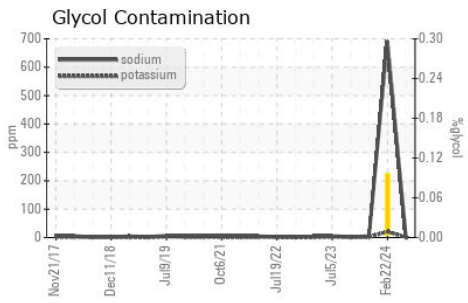
Test for glycol is negative. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	4	11	7
Potassium	ppm	ASTM D5185(m)	>20	<1	▲ 21	1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	▲ 0.096	NEG
Soot %	%	ASTM D7844*	>3	1.1	0	0.7
Nitration	Abs/cm	ASTM D7624*	>20	9.2	10.6	9.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.5	19.9	21.4
Emulsified Water	scalar	Visual*	>0.2	NEG	▲ .2%	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		4	● 692	6
Boron	ppm	ASTM D5185(m)	2	6	8	2
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	60	72	59
Manganese	ppm	ASTM D5185(m)	0	<1	<1	0
Magnesium	ppm	ASTM D5185(m)	950	953	517	952
Calcium	ppm	ASTM D5185(m)	1050	1057	1434	1038
Phosphorus	ppm	ASTM D5185(m)	995	967	723	960
Zinc	ppm	ASTM D5185(m)	1180	1167	835	1193
Sulfur	ppm	ASTM D5185(m)	2600	2400	1980	2424
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.3	16.9	17.8
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.3	▲ 14.8	11.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0119023
Lab Number : 02643999
Unique Number : 5801538
Test Package : MOB 1
Received : 25 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 25 Jun 2024 - Wes Davis

GFL Environmental - 554 - Edmonton SW
 8409 - 15th Street NW
 Edmonton, AB
 CA T6P 0B8
 Contact: Tim Greig
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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.