



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
9134
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112577	GFL0102657	GFL0093878
Sample Date		Client Info		03 Apr 2024	25 Jan 2024	21 Oct 2023
Machine Age	hrs	Client Info		14944	0	19222
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	SEVERE	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>110	12	▲ 122	105
Chromium	ppm	ASTM D5185(m)	>4	<1	▲ 4	▲ 5
Nickel	ppm	ASTM D5185(m)	>2	<1	▲ 3	▲ 3
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	1	9	8
Lead	ppm	ASTM D5185(m)	>45	0	<1	<1
Copper	ppm	ASTM D5185(m)	>85	<1	2	2
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

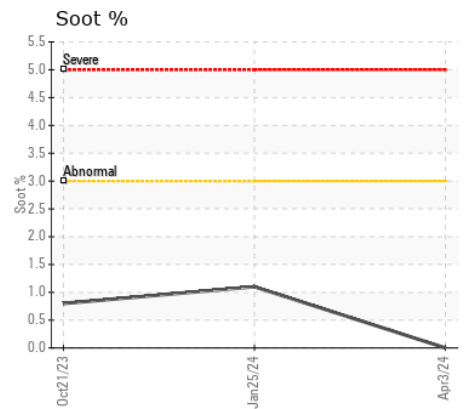
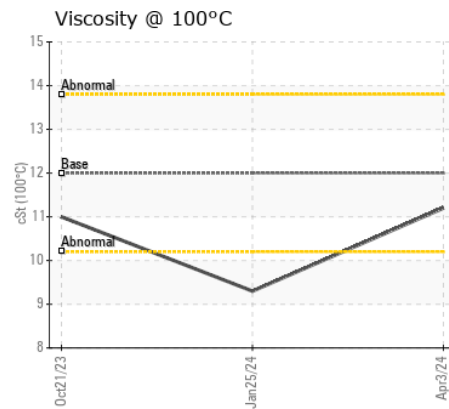
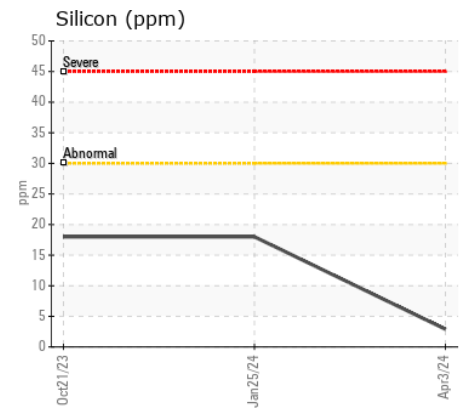
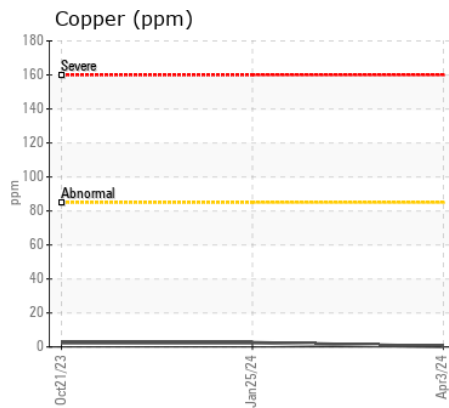
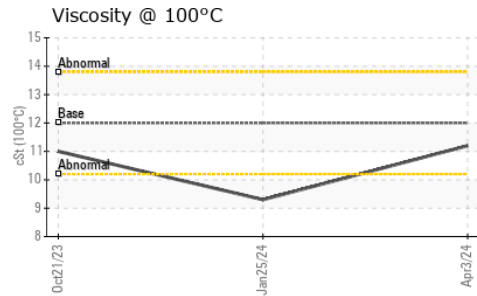
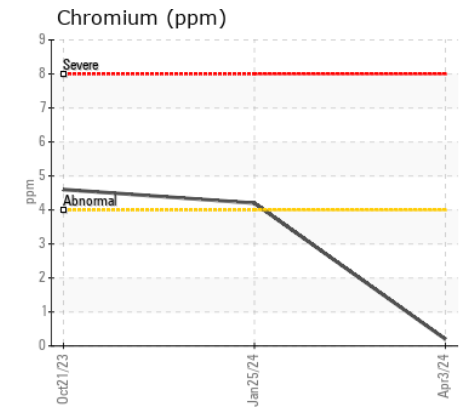
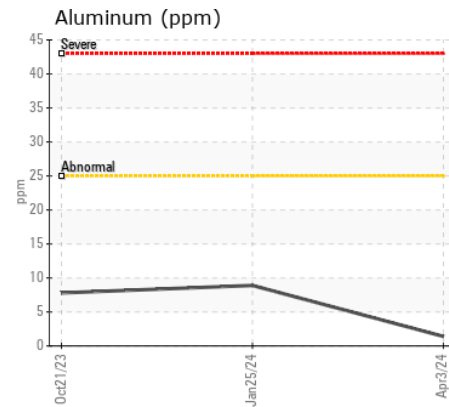
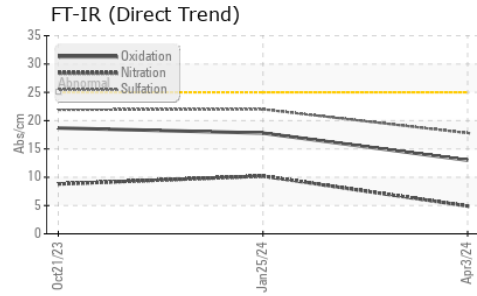
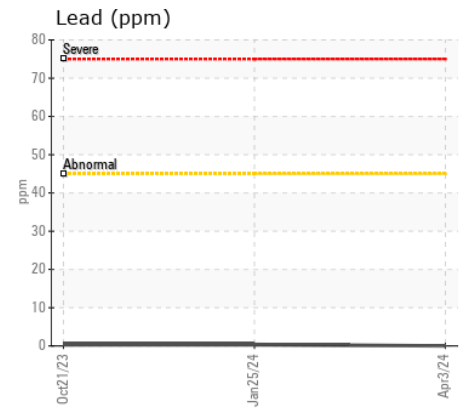
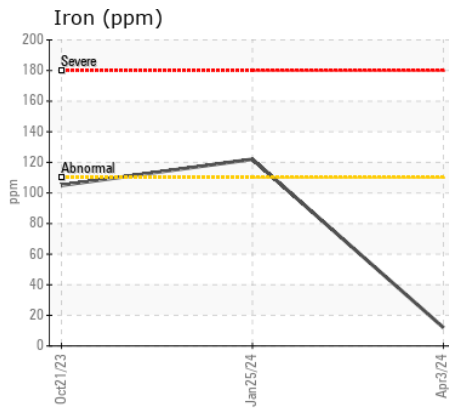
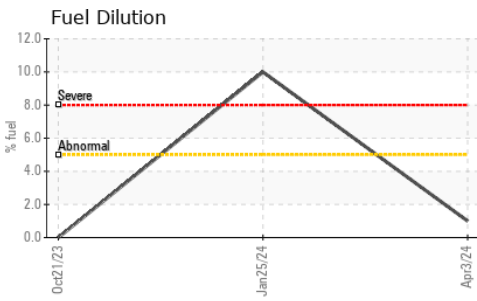
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>30	3	18	18
Potassium	ppm	ASTM D5185(m)	>20	<1	4	8
Fuel	%	ASTM D7593*	>5	1	▲ 10	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>3	0	1.1	0.8
Nitration	Abs/cm	ASTM D7624*	>20	4.9	10.2	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.8	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)		4	31	83
Boron	ppm	ASTM D5185(m)	2	10	5	2
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	56	53	60
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	916	802	907
Calcium	ppm	ASTM D5185(m)	1050	1003	986	990
Phosphorus	ppm	ASTM D5185(m)	995	936	860	909
Zinc	ppm	ASTM D5185(m)	1180	1093	1000	1116
Sulfur	ppm	ASTM D5185(m)	2600	2483	2205	2332
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.0	17.8	18.7
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.2	▲ 9.3	11.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112577
Lab Number : 02629878
Unique Number : 5763010
Test Package : MOB 1 (Additional Tests: PercentFuel)

GFL Environmental - 554 - Edmonton SW
 8409 -15th Street NW
 Edmonton, AB
 CA T6P 0B8
 Contact: Jennifer Walker
 jenniferwalker@gflenv.com

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.

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