



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
4789
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112494	GFL0077969	GFL0059991
Sample Date		Client Info		09 May 2024	26 Apr 2023	15 Sep 2022
Machine Age	hrs	Client Info		14616	18994	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	SEVERE	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>110	6	51	33
Chromium	ppm	ASTM D5185(m)	>4	0	2	1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	▲ 205	▲ 244
Lead	ppm	ASTM D5185(m)	>45	0	2	3
Copper	ppm	ASTM D5185(m)	>85	3	2	7
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

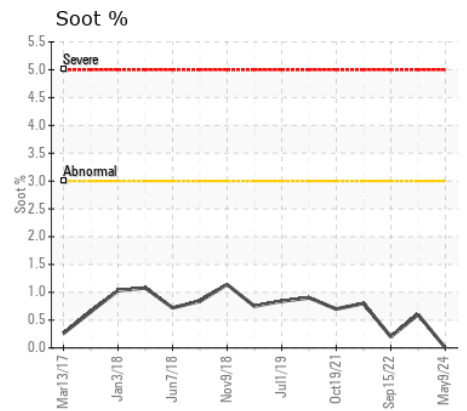
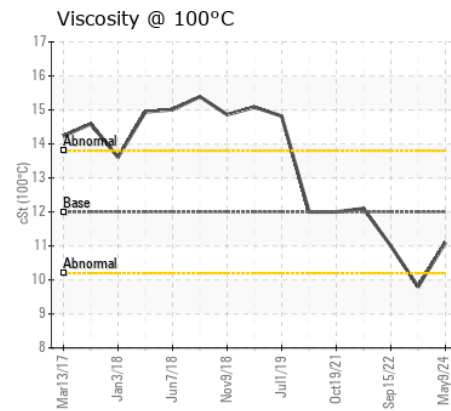
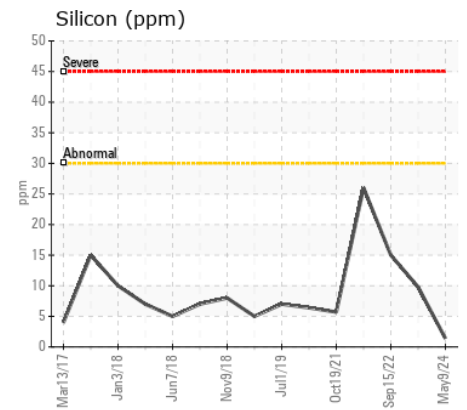
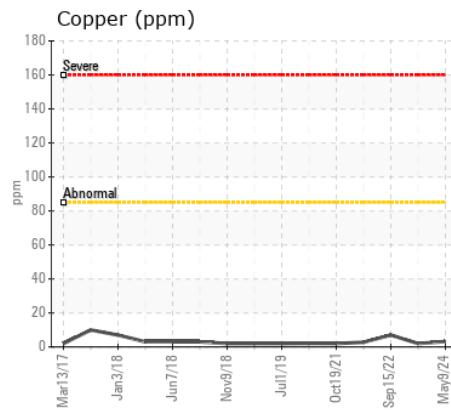
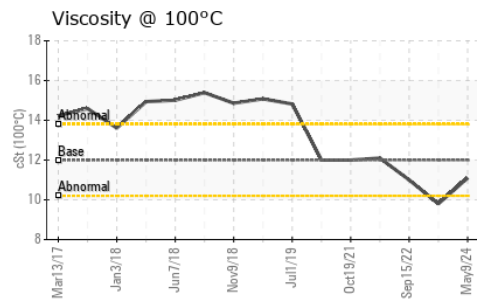
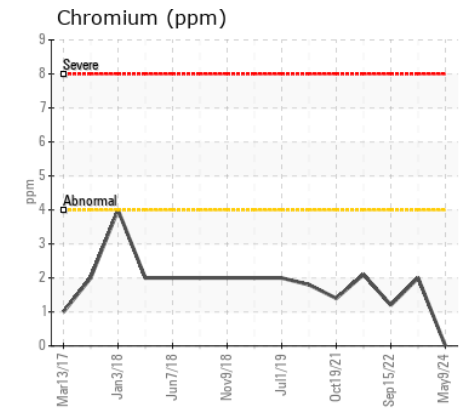
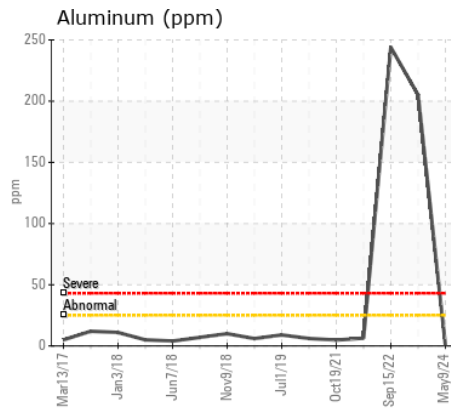
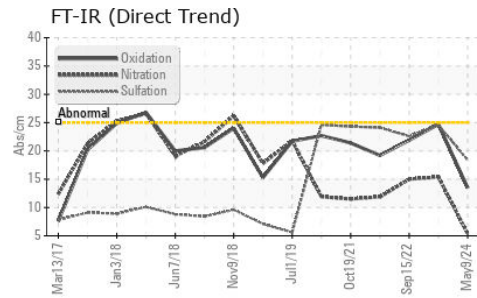
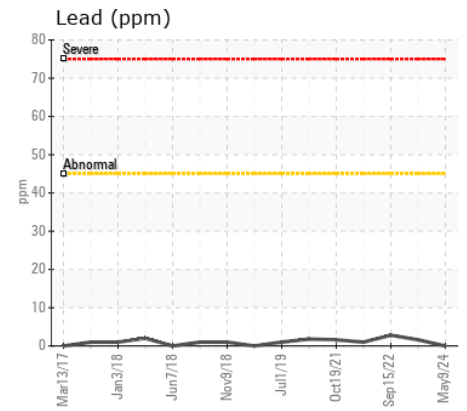
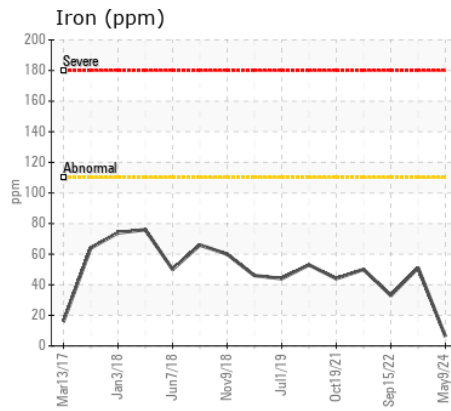
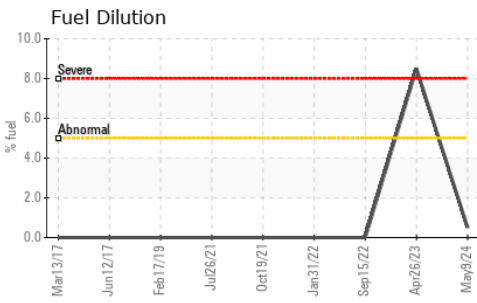
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	1	10	15
Potassium	ppm	ASTM D5185(m)	>20	2	▲ 53	▲ 88
Fuel	%	ASTM D7593*	>5	0.5	▲ 8.5	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	▲ 0.024	▲ 0.016
Soot %	%	ASTM D7844*	>3	0	0.6	0.2
Nitration	Abs/cm	ASTM D7624*	>20	5.4	15.4	15.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.4	24.6	22.6
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	● 874	● 1160
Boron	ppm	ASTM D5185(m)	2	2	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	52	92	95
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	867	790	779
Calcium	ppm	ASTM D5185(m)	1050	932	937	916
Phosphorus	ppm	ASTM D5185(m)	995	895	830	854
Zinc	ppm	ASTM D5185(m)	1180	1042	956	994
Sulfur	ppm	ASTM D5185(m)	2600	2311	2185	2236
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.5	24.7	21.9
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.1	▲ 9.8	11.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112494
Lab Number : 02637114
Unique Number : 5786276
Test Package : MOB 1 (Additional Tests: PercentFuel)

GFL Environmental - 554 - Edmonton SW
 8409 -15th Street NW
 Edmonton, AB
 CA T6P 0B8
 Contact: Tim Greig
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 T: (780)231-0521
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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.