



WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id
4784
 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		GFL012484	GFL012534	GFL0097636
Sample Date		Client Info		18 Apr 2024	08 Apr 2024	15 Nov 2023
Machine Age	hrs	Client Info		2672	2519	952
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	SEVERE	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>110	6	52	8
Chromium	ppm	ASTM D5185(m)	>4	0	2	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	1	2	1
Lead	ppm	ASTM D5185(m)	>45	0	6	<1
Copper	ppm	ASTM D5185(m)	>85	<1	4	1
Tin	ppm	ASTM D5185(m)	>4	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

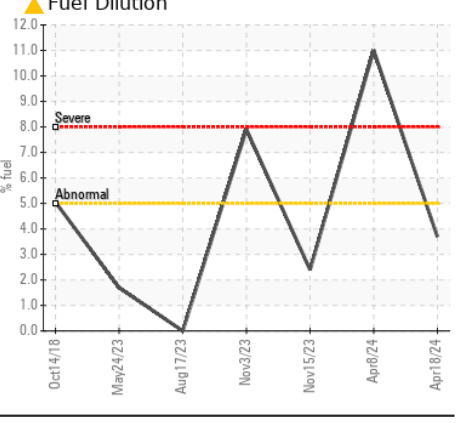
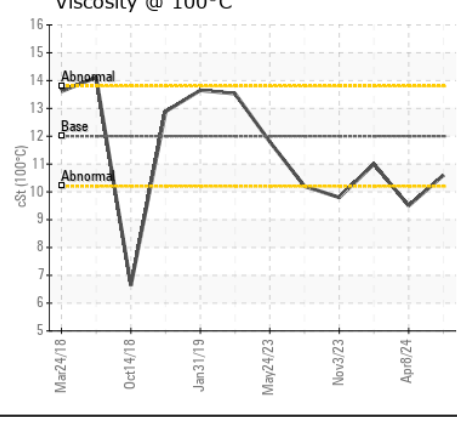
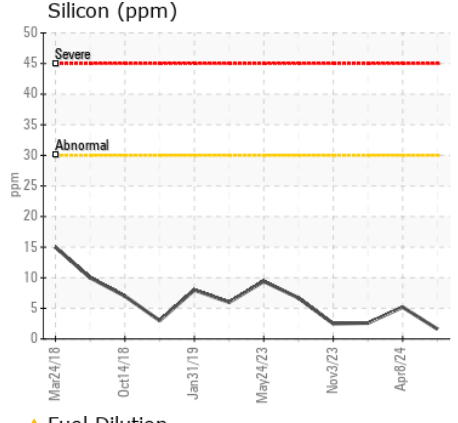
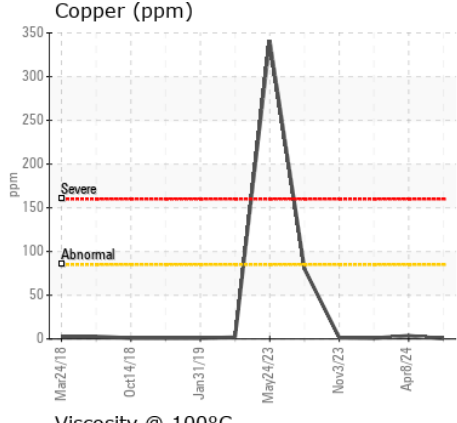
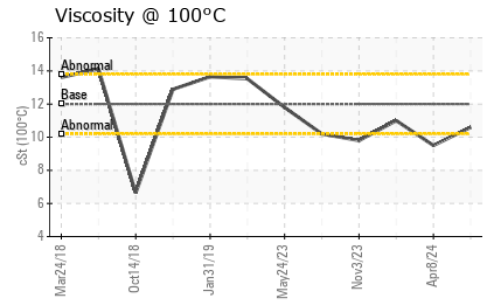
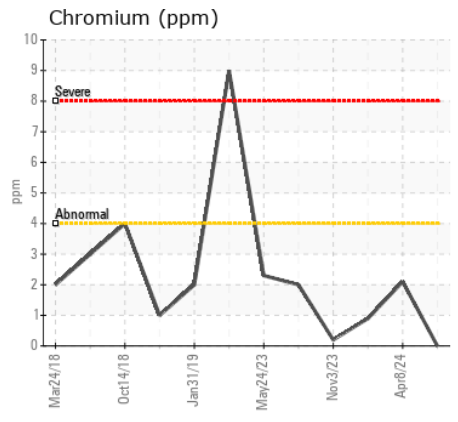
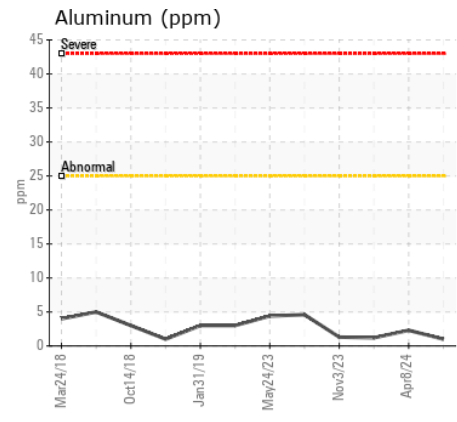
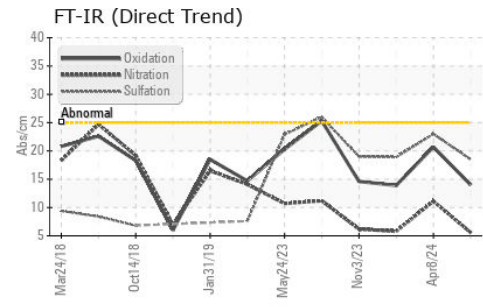
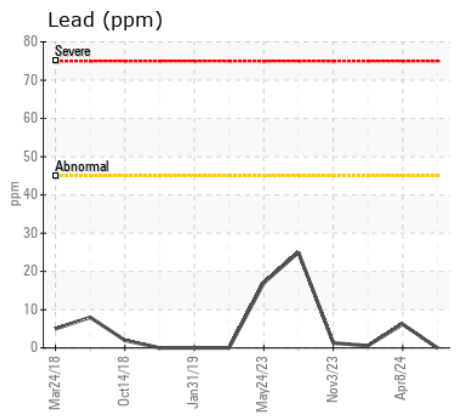
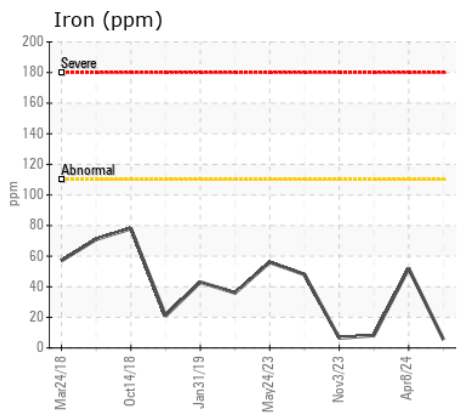
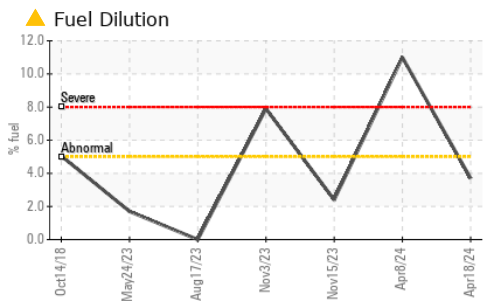
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>30	2	5	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Fuel	%	ASTM D7593*	>5	▲ 3.7	▲ 11	▲ 2.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.1	1.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	5.6	11.1	5.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.5	23.0	18.9
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	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	6	3
Boron	ppm	ASTM D5185(m)	2	3	2	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	55	52	56
Manganese	ppm	ASTM D5185(m)	0	0	<1	0
Magnesium	ppm	ASTM D5185(m)	950	894	830	926
Calcium	ppm	ASTM D5185(m)	1050	982	938	995
Phosphorus	ppm	ASTM D5185(m)	995	935	847	951
Zinc	ppm	ASTM D5185(m)	1180	1088	1042	1123
Sulfur	ppm	ASTM D5185(m)	2600	2430	1982	2456
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.0	20.7	13.9
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	10.6	▲ 9.5	11.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112484 **Received** : 26 Apr 2024
Lab Number : 02631561 **Tested** : 29 Apr 2024
Unique Number : 5772714 **Diagnosed** : 29 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel, Visual)

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

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.