



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
OR1975
Component
Front Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (11 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0113413	GFL0087388	---
Sample Date		Client Info		29 Apr 2024	19 Jul 2023	---
Machine Age	hrs	Client Info		8207	6950	---
Oil Age	hrs	Client Info		500	600	---
Filter Age	hrs	Client Info		500	600	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	31	29	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>2	<1	0	---
Titanium	ppm	ASTM D5185(m)	>2	0	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	10	5	---
Lead	ppm	ASTM D5185(m)	>40	0	3	---
Copper	ppm	ASTM D5185(m)	>330	4	87	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

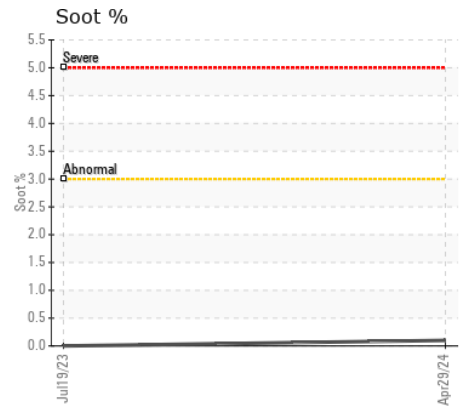
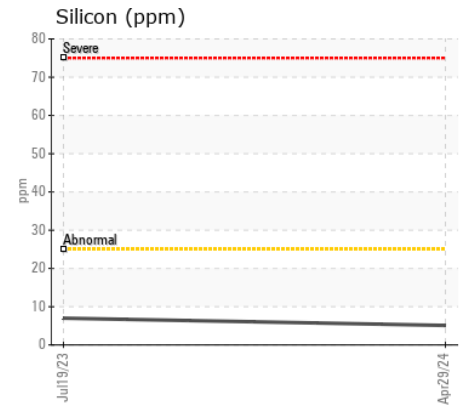
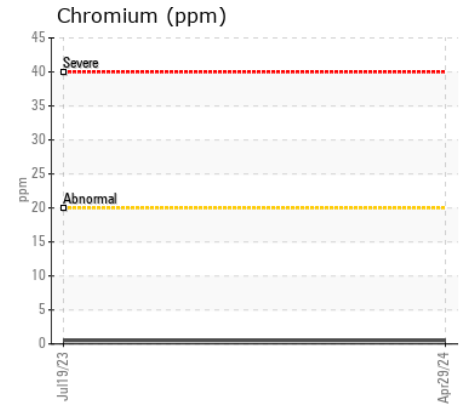
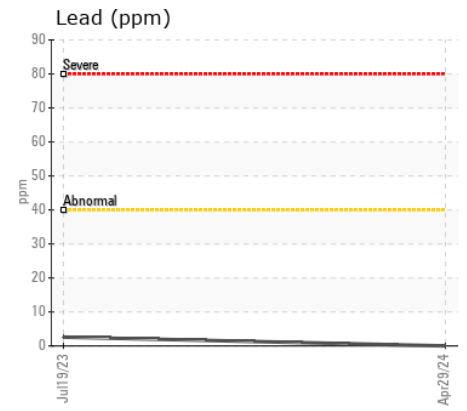
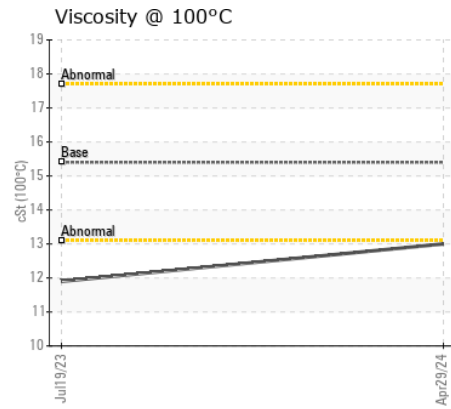
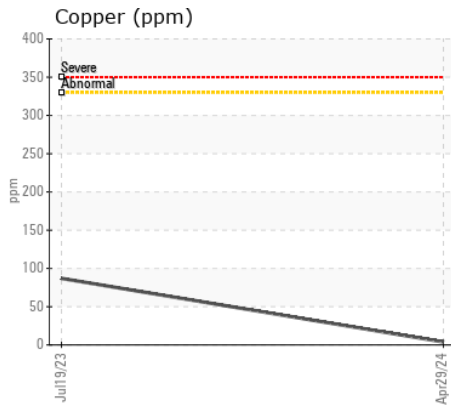
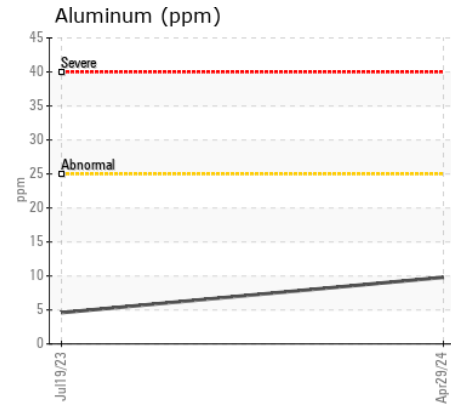
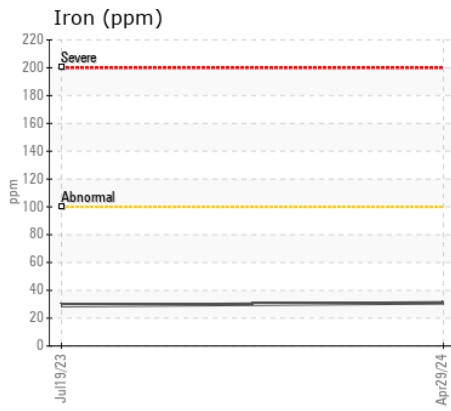
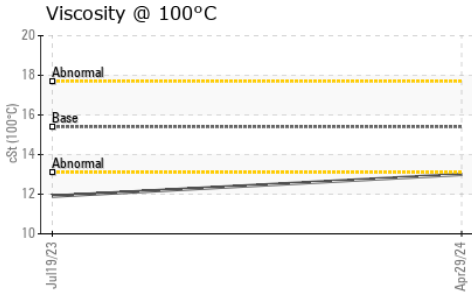
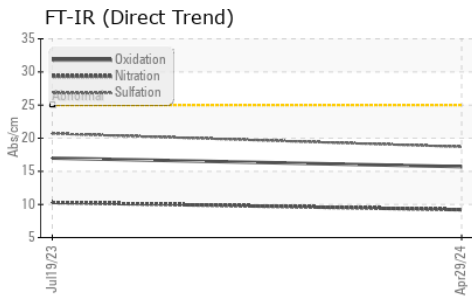
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	7	---
Potassium	ppm	ASTM D5185(m)	>20	2	9	---
Fuel		WC Method	>5	<1.0	1	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	0.0	---
Soot %	%	ASTM D7844*	>3	0.1	0	---
Nitration	Abs/cm	ASTM D7624*	>20	9.2	10.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.7	20.7	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		5	43	---
Boron	ppm	ASTM D5185(m)	0	6	22	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	60	56	16	---
Manganese	ppm	ASTM D5185(m)	0	<1	<1	---
Magnesium	ppm	ASTM D5185(m)	1010	915	577	---
Calcium	ppm	ASTM D5185(m)	1070	1334	1468	---
Phosphorus	ppm	ASTM D5185(m)	1150	1063	981	---
Zinc	ppm	ASTM D5185(m)	1270	1244	1093	---
Sulfur	ppm	ASTM D5185(m)	2060	2660	3035	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.7	17.0	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.0	11.9	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113413
Lab Number : 02634247
Unique Number : 5775400
Test Package : MOB 1
Received : 09 May 2024
Tested : 09 May 2024
Diagnosed : 10 May 2024 - Kevin Marson

GFL Environmental - 720 - Lafleche - Landfill
 17125 Lafleche Road,
 Moose Creek, ON
 CA K0C 1W0
 Contact: Charles Bergeron
 cbergeron@gflenv.com
 T: (613)538-4853
 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.