



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
212008
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0107264	GFL0107310	GFL0057886
Sample Date		Client Info		09 Apr 2024	11 Mar 2024	24 May 2023
Machine Age	kms	Client Info		171091	164137	600
Oil Age	kms	Client Info		0	0	600
Filter Age	kms	Client Info		0	0	600
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	5	14	13
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	1	6	5
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

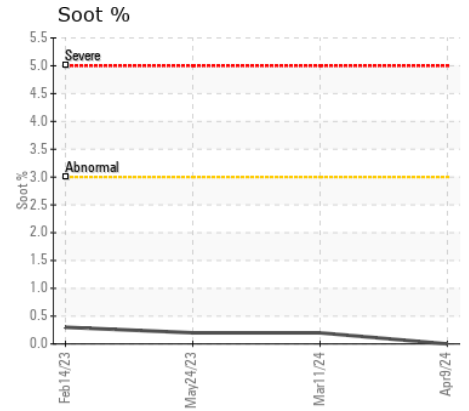
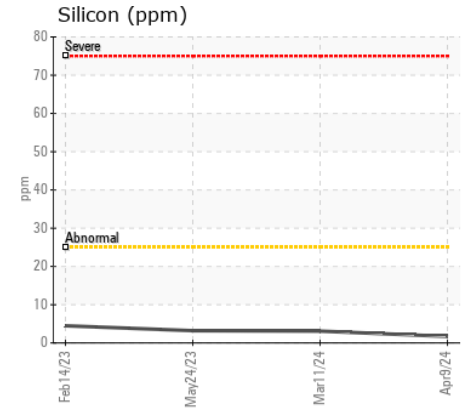
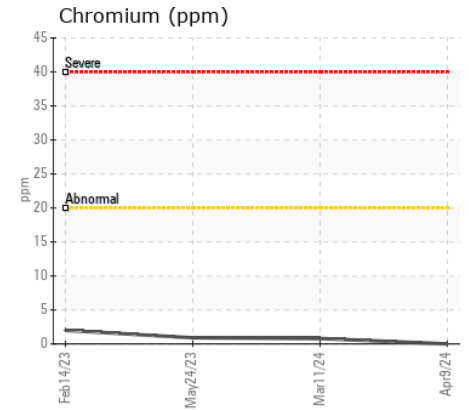
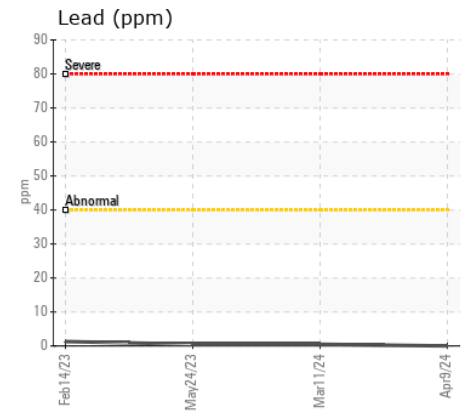
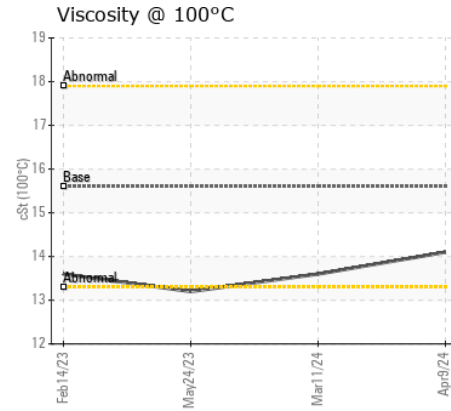
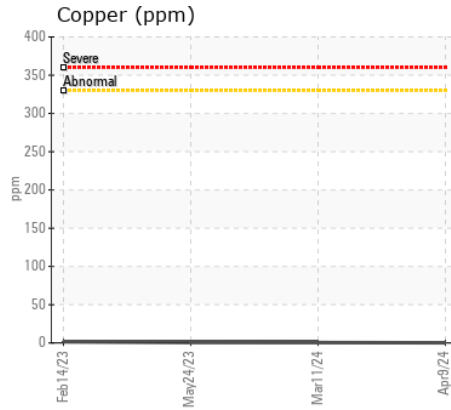
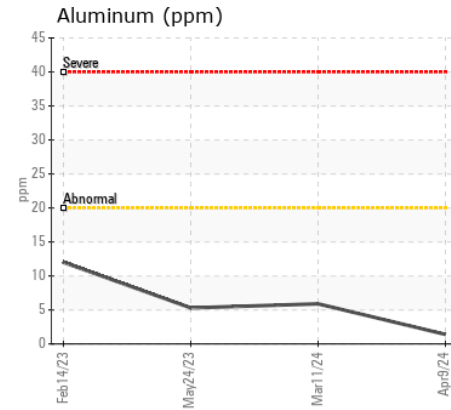
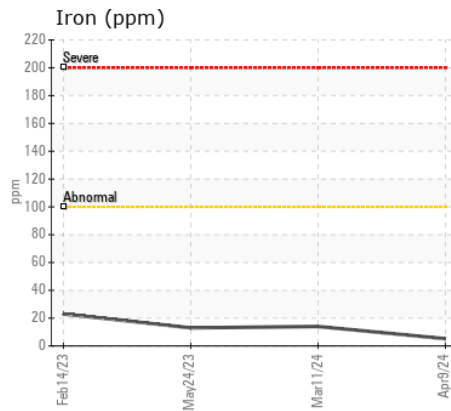
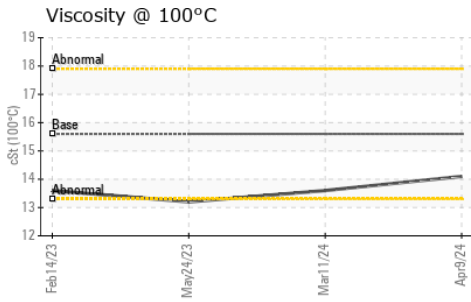
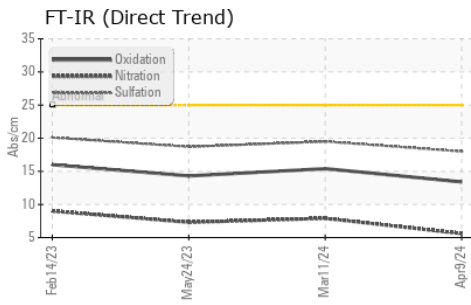
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	3	3
Potassium	ppm	ASTM D5185(m)	>20	2	8	7
Fuel		WC Method	>2.0	<1.0	1.1	▲ 2.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	5.6	7.9	7.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.0	19.5	18.7
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	4	3
Boron	ppm	ASTM D5185(m)	0	4	3	11
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	58	61	58
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	954	975	928
Calcium	ppm	ASTM D5185(m)	1070	1033	1057	1022
Phosphorus	ppm	ASTM D5185(m)	1150	979	1029	1038
Zinc	ppm	ASTM D5185(m)	1270	1141	1182	1135
Sulfur	ppm	ASTM D5185(m)	2060	2502	2671	2474
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.4	15.4	14.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.1	13.6	▲ 13.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0107264
Lab Number : 02628072
Unique Number : 5761204
Test Package : MOB 1
Received : 11 Apr 2024
Tested : 11 Apr 2024
Diagnosed : 11 Apr 2024 - Wes Davis

GFL Environmental - 250 - Sault Ste Marie Hauling + MRF
 86 Sackville Rd,
 Sault Ste. Marie, ON
 CA P6B 4T6
 Contact: Mike Pelletier
 mpelletier@gflenv.com
 T: (705)945-7554
 F: (705)945-7857

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.