



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
8135
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0119013	GFL0112575	GFL0101729
Sample Date		Client Info		27 May 2024	06 Apr 2024	28 Nov 2023
Machine Age	hrs	Client Info		1300	1012	494
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	41	42	14
Chromium	ppm	ASTM D5185(m)	>20	2	2	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	2	<1
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	3	7	14
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

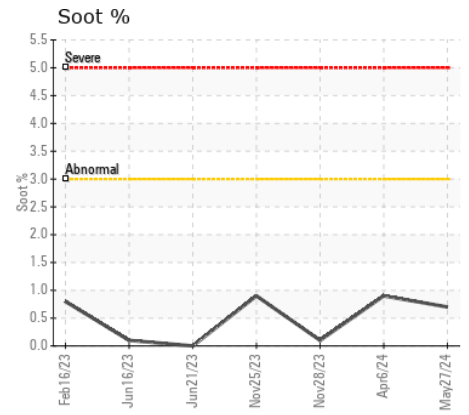
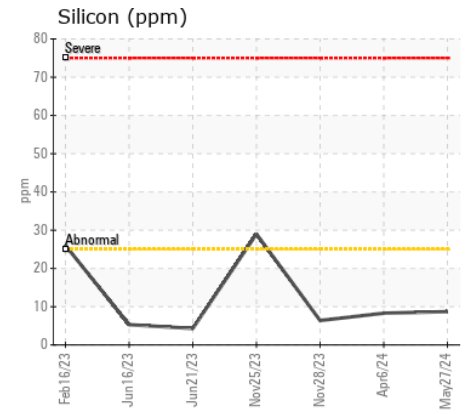
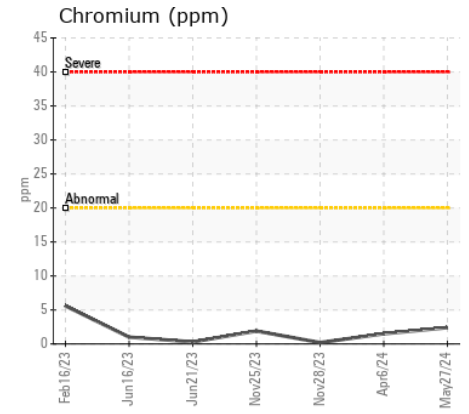
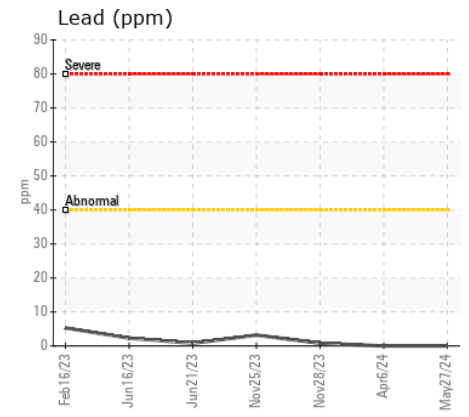
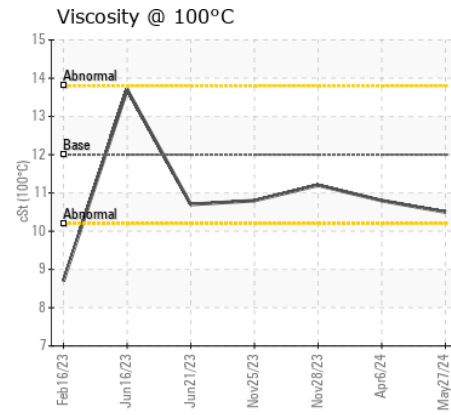
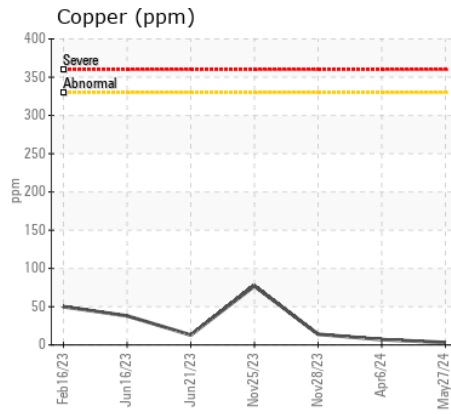
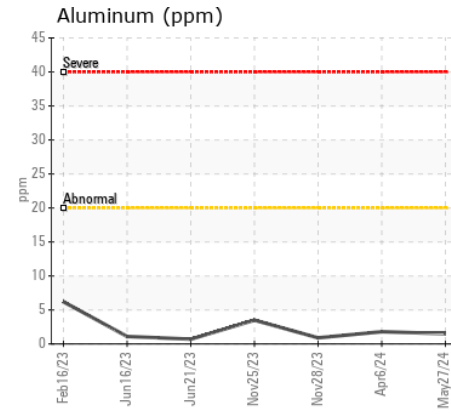
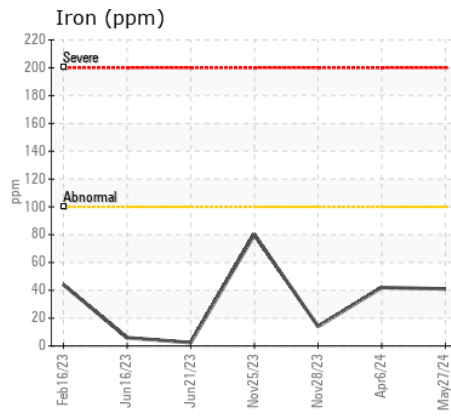
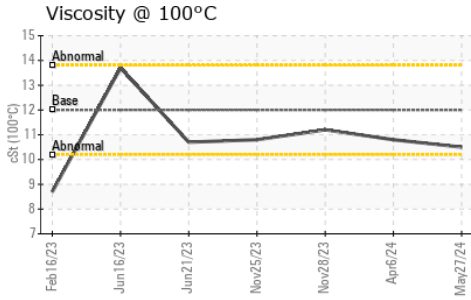
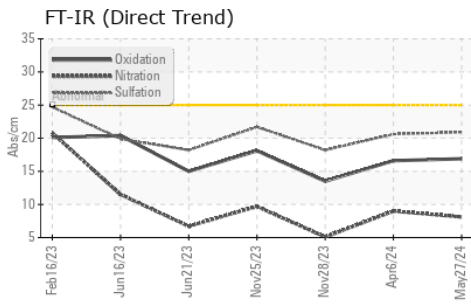
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	9	8	6
Potassium	ppm	ASTM D5185(m)	>20	<1	1	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.7	0.9	0.1
Nitration	Abs/cm	ASTM D7624*	>20	8.1	9.0	5.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.9	20.6	18.2
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)		6	7	6
Boron	ppm	ASTM D5185(m)	2	1	2	3
Barium	ppm	ASTM D5185(m)	0	<1	<1	1
Molybdenum	ppm	ASTM D5185(m)	50	54	56	55
Manganese	ppm	ASTM D5185(m)	0	<1	1	<1
Magnesium	ppm	ASTM D5185(m)	950	886	931	923
Calcium	ppm	ASTM D5185(m)	1050	964	1007	1013
Phosphorus	ppm	ASTM D5185(m)	995	926	918	956
Zinc	ppm	ASTM D5185(m)	1180	1071	1118	1115
Sulfur	ppm	ASTM D5185(m)	2600	2241	2267	2499
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.9	16.6	13.5
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	10.5	10.8	11.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0119013
Lab Number : 02638397
Unique Number : 5787559
Test Package : MOB 1
Received : 29 May 2024
Tested : 29 May 2024
Diagnosed : 29 May 2024 - Wes Davis

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.