



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
8130
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		GFL0119021	GFL0102676	GFL0102607
Sample Date		Client Info		20 Jun 2024	24 Mar 2024	12 Feb 2024
Machine Age	hrs	Client Info		17258	0	16685
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	52	19	55
Chromium	ppm	ASTM D5185(m)	>5	2	<1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>30	4	2	4
Lead	ppm	ASTM D5185(m)	>30	6	0	3
Copper	ppm	ASTM D5185(m)	>150	2	<1	2
Tin	ppm	ASTM D5185(m)	>5	<1	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

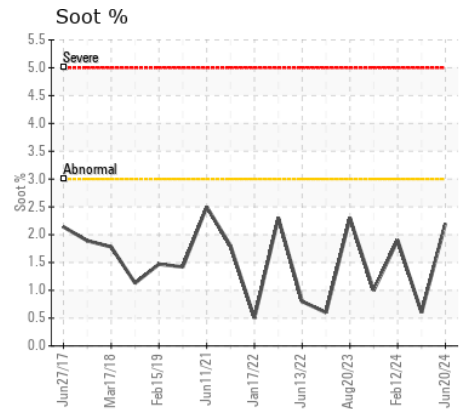
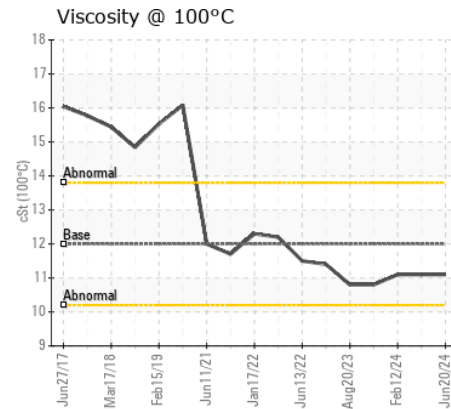
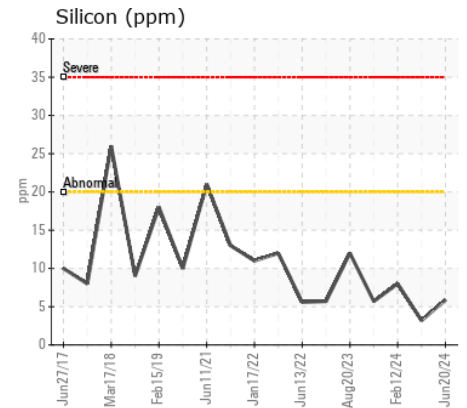
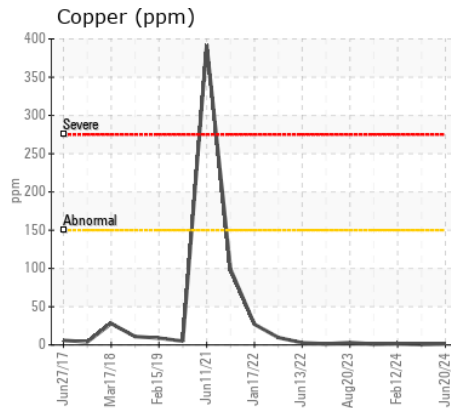
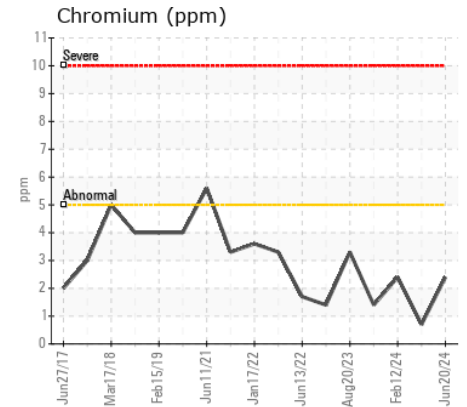
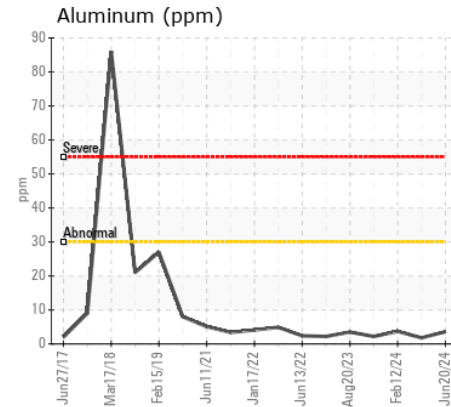
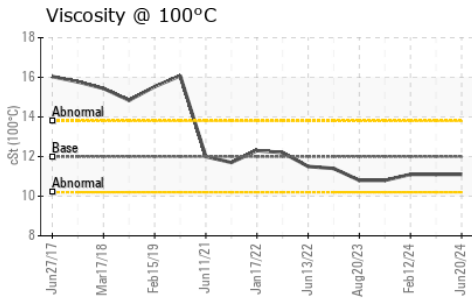
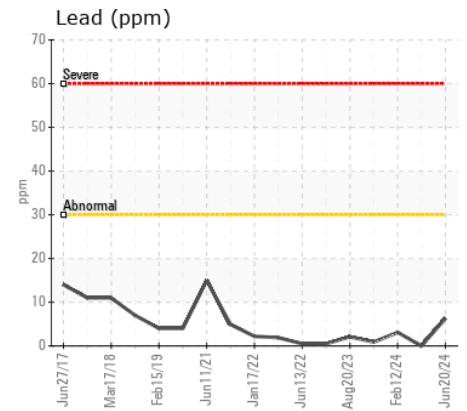
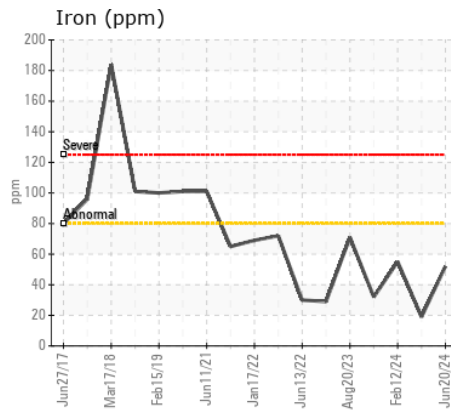
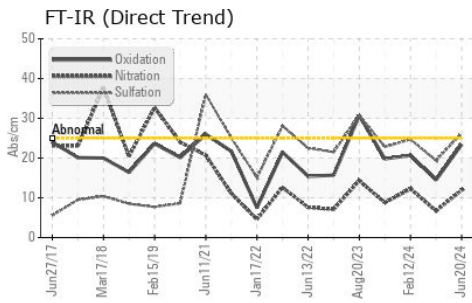
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	6	3	8
Potassium	ppm	ASTM D5185(m)	>20	3	<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	2.2	0.6	1.9
Nitration	Abs/cm	ASTM D7624*	>20	11.9	6.7	12.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.2	19.4	24.7
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)		8	3	6
Boron	ppm	ASTM D5185(m)	2	2	<1	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	54	57	56
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	950	867	935	881
Calcium	ppm	ASTM D5185(m)	1050	952	1016	997
Phosphorus	ppm	ASTM D5185(m)	995	879	957	927
Zinc	ppm	ASTM D5185(m)	1180	1090	1133	1101
Sulfur	ppm	ASTM D5185(m)	2600	2162	2435	2396
Oxidation	Abs/.1mm	ASTM D7414*	>25	23.4	14.5	20.7
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.1	11.1	11.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0119021
Lab Number : 02643983
Unique Number : 5801522
Test Package : MOB 1

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.