



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
4785
 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		GFL0102637	GFL0097647	GFL0093897
Sample Date		Client Info		10 Jan 2024	12 Oct 2023	29 Sep 2023
Machine Age	hrs	Client Info		25078	24572	24551
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		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	78	10	48
Chromium	ppm	ASTM D5185(m)	>20	4	<1	3
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	1	3
Lead	ppm	ASTM D5185(m)	>40	21	9	▲ 45
Copper	ppm	ASTM D5185(m)	>330	110	52	238
Tin	ppm	ASTM D5185(m)	>15	2	<1	2
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

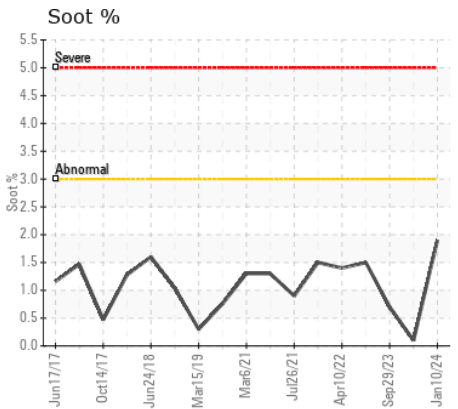
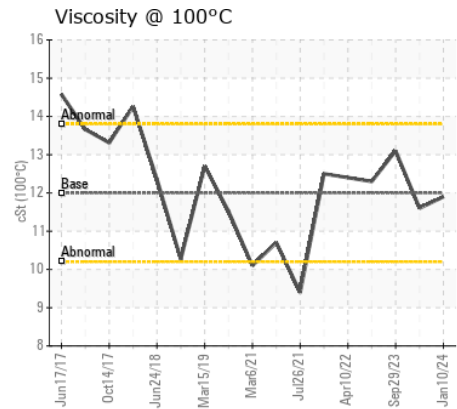
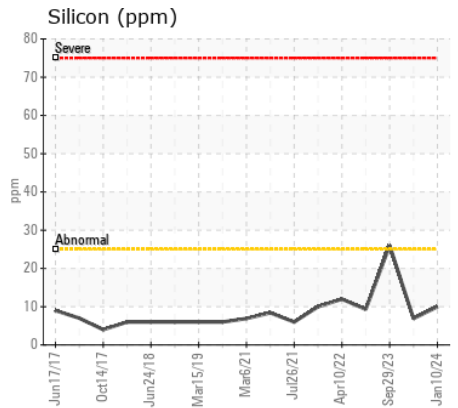
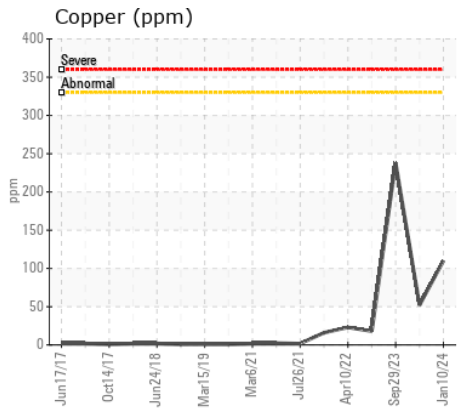
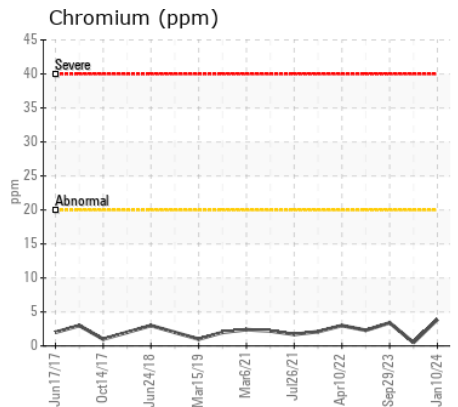
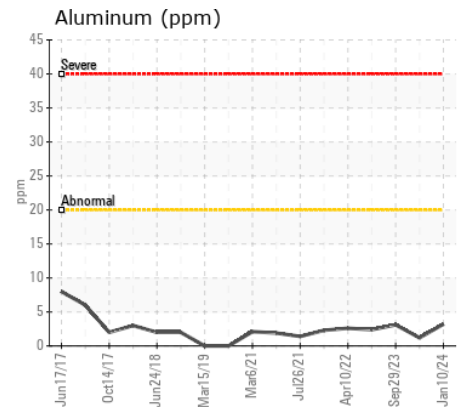
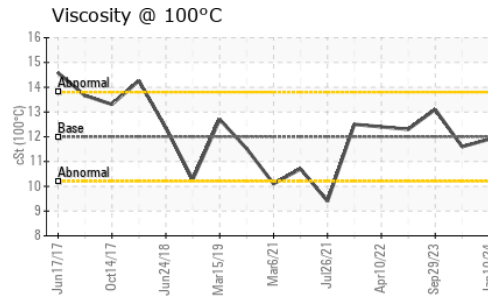
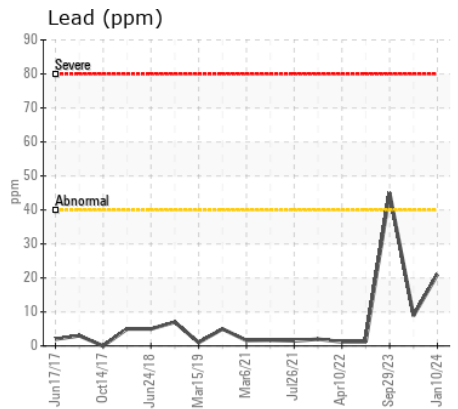
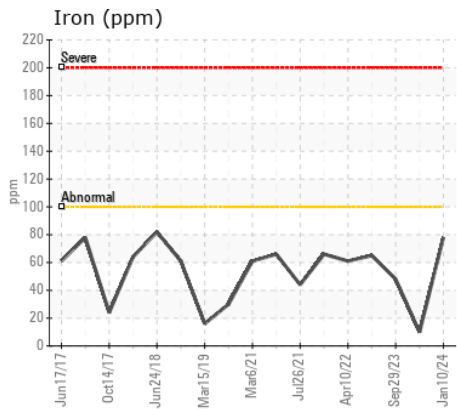
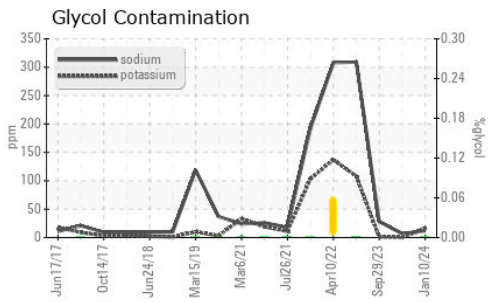
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	10	7	▲ 26
Potassium	ppm	ASTM D5185(m)	>20	16	<1	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>3	1.9	0.1	0.7
Nitration	Abs/cm	ASTM D7624*	>20	12.7	5.4	9.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.6	18.5	21.2
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)		12	7	28
Boron	ppm	ASTM D5185(m)	2	2	5	15
Barium	ppm	ASTM D5185(m)	0	0	<1	1
Molybdenum	ppm	ASTM D5185(m)	50	63	59	63
Manganese	ppm	ASTM D5185(m)	0	<1	<1	5
Magnesium	ppm	ASTM D5185(m)	950	1016	903	594
Calcium	ppm	ASTM D5185(m)	1050	1157	1093	1395
Phosphorus	ppm	ASTM D5185(m)	995	993	959	792
Zinc	ppm	ASTM D5185(m)	1180	1232	1122	924
Sulfur	ppm	ASTM D5185(m)	2600	2226	2495	1928
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.0	13.8	18.4
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.9	11.6	13.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 554 - Edmonton SW**
Sample No. : GFL0102637 **Received** : 22 Jan 2024 **8409 -15th Street NW**
Lab Number : 02610179 **Diagnosed** : 22 Jan 2024 **Edmonton, AB**
Unique Number : 5711265 **Diagnostician** : Wes Davis **CA T6P 0B8**
Test Package : MOB 1 (Additional Tests: Glycol) **Contact: Tim Greig**
To discuss this sample report, contact Customer Service at 1-800-268-2131. **tgreig@gflenv.com**
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. **T: (780)231-0521**
Validity of results and interpretation are based on the sample and information as supplied. **F:**