



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
515000
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0110662	GFL0094497	GFL0082937
Sample Date		Client Info		01 Mar 2024	11 Oct 2023	22 Jun 2023
Machine Age	hrs	Client Info		0	8732	8167
Oil Age	hrs	Client Info		0	0	8167
Filter Age	hrs	Client Info		0	0	8167
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	12	14	22
Chromium	ppm	ASTM D5185(m)	>5	<1	1	2
Nickel	ppm	ASTM D5185(m)	>4	2	2	4
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>150	1	2	4
Copper	ppm	ASTM D5185(m)	>90	2	6	24
Tin	ppm	ASTM D5185(m)	>5	<1	1	2
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

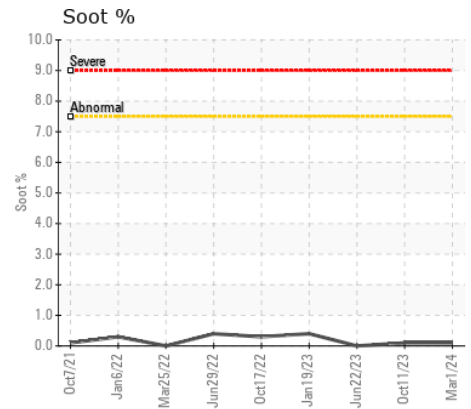
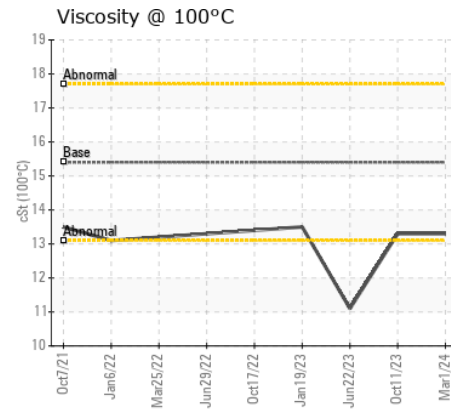
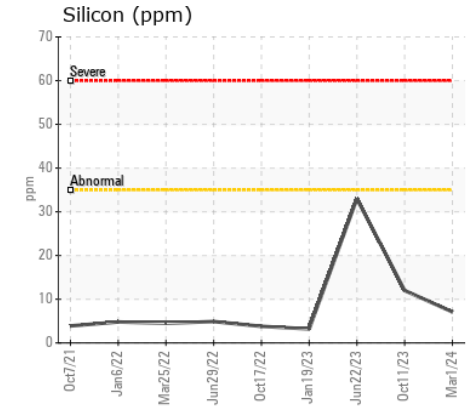
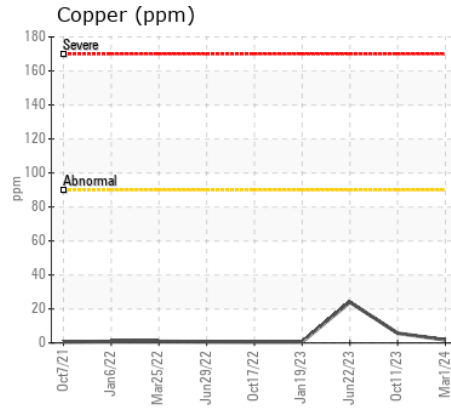
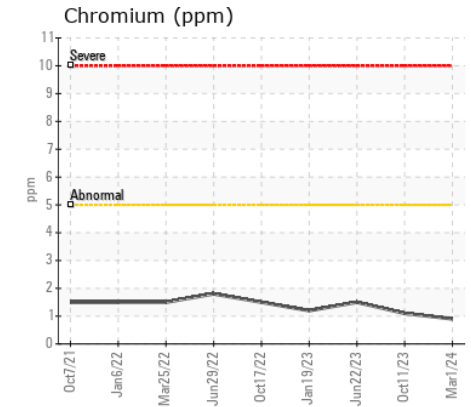
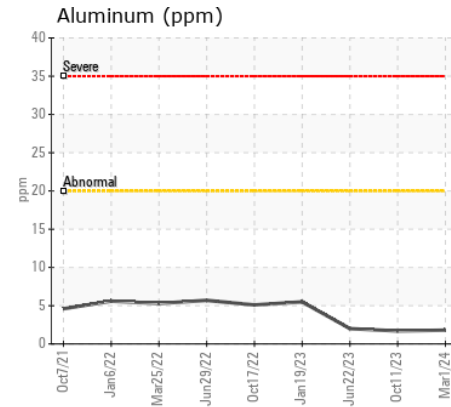
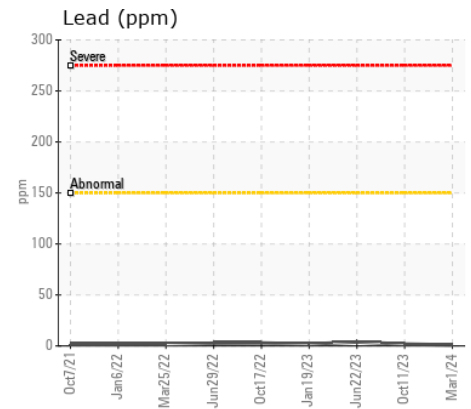
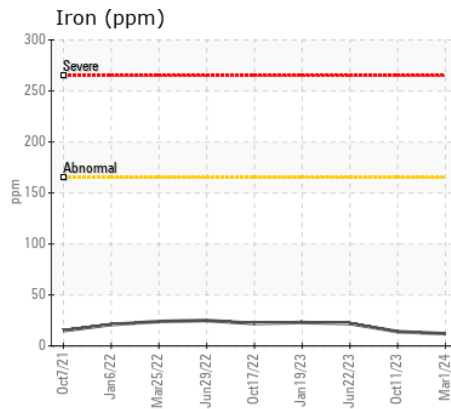
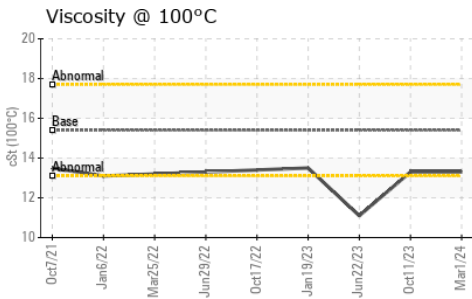
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	7	12	33
Potassium	ppm	ASTM D5185(m)	>20	2	2	8
Fuel		WC Method	>3.0	<1.0	<1.0	0.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>7.5	0.1	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	7.8	7.7	7.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.7	19.0	17.6
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)		4	6	6
Boron	ppm	ASTM D5185(m)	0	2	3	12
Barium	ppm	ASTM D5185(m)	0	0	2	9
Molybdenum	ppm	ASTM D5185(m)	60	59	56	12
Manganese	ppm	ASTM D5185(m)	0	0	<1	3
Magnesium	ppm	ASTM D5185(m)	1010	969	893	156
Calcium	ppm	ASTM D5185(m)	1070	1117	1205	2121
Phosphorus	ppm	ASTM D5185(m)	1150	1018	971	893
Zinc	ppm	ASTM D5185(m)	1270	1209	1184	1009
Sulfur	ppm	ASTM D5185(m)	2060	2726	2516	2914
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.7	14.3	10.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.3	13.3	▲ 11.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0110662
Lab Number : 02619849
Unique Number : 5736959
Test Package : MOB 1
Received : 05 Mar 2024
Tested : 05 Mar 2024
Diagnosed : 05 Mar 2024 - Wes Davis

GFL Environmental - 207 - Pickering SW
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 PICKERING, ON
 CA L1W 3P1
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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.