



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
501059
 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		GFL0112569	GFL0102631	GFL0056208
Sample Date		Client Info		07 Apr 2024	28 Jan 2024	13 Jul 2022
Machine Age	hrs	Client Info		6673	6323	1129899
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	12	32	24
Chromium	ppm	ASTM D5185(m)	>20	<1	2	1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	2	3	8
Lead	ppm	ASTM D5185(m)	>30	<1	7	<1
Copper	ppm	ASTM D5185(m)	>30	<1	1	10
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

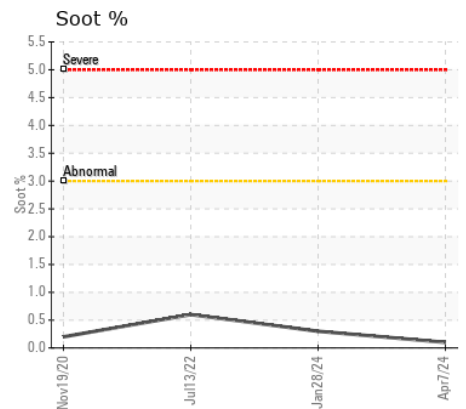
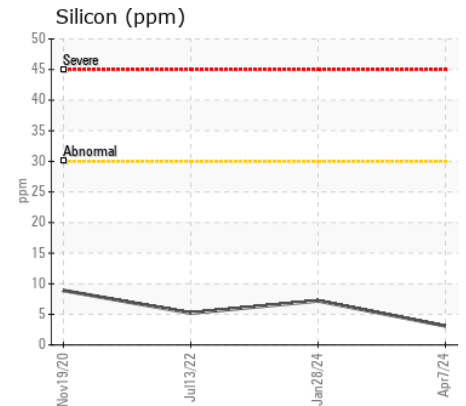
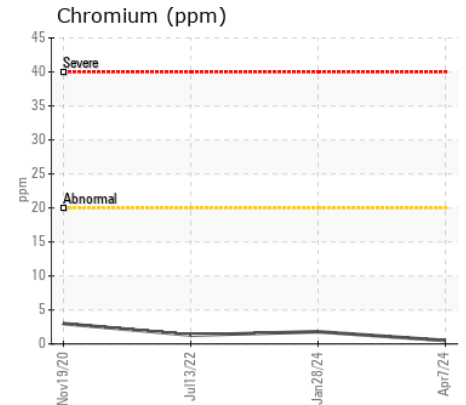
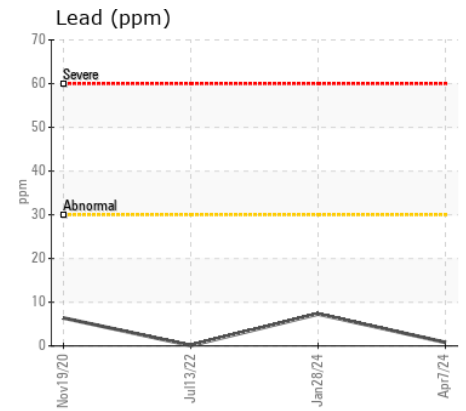
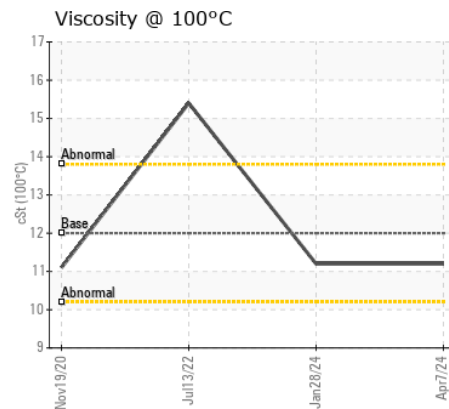
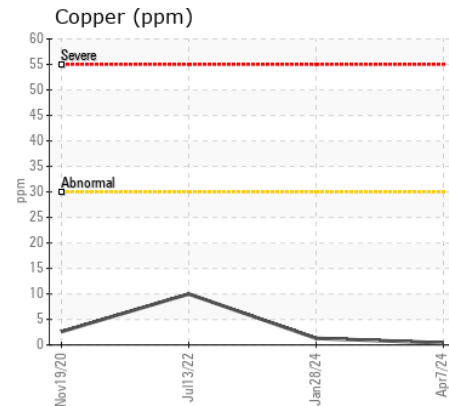
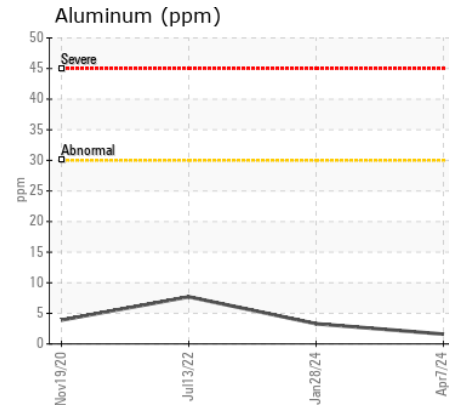
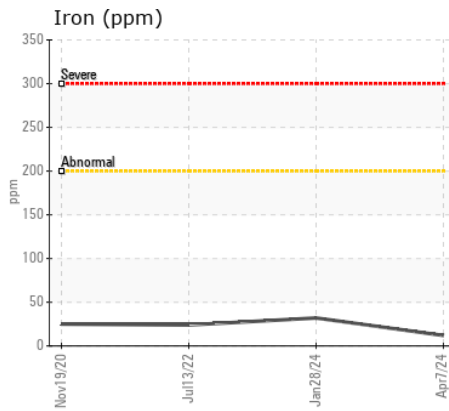
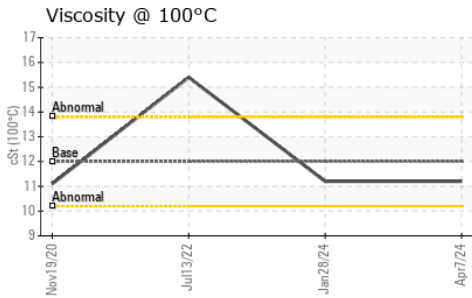
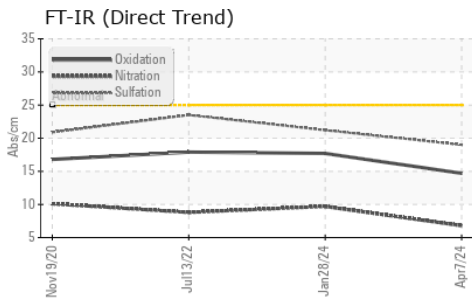
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	3	7	5
Potassium	ppm	ASTM D5185(m)	>20	<1	3	▲ 23
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	▲ 0.01
Soot %	%	ASTM D7844*	>3	0.1	0.3	0.6
Nitration	Abs/cm	ASTM D7624*	>20	6.8	9.7	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.0	21.2	23.5
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	9	● 62
Boron	ppm	ASTM D5185(m)	2	2	2	34
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	58	59	24
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	950	973	971	336
Calcium	ppm	ASTM D5185(m)	1050	1025	1095	1891
Phosphorus	ppm	ASTM D5185(m)	995	972	989	923
Zinc	ppm	ASTM D5185(m)	1180	1151	1195	1185
Sulfur	ppm	ASTM D5185(m)	2600	2467	2461	2654
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.7	17.7	17.9
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.2	11.2	15.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112569
Lab Number : 02629862
Unique Number : 5762994
Test Package : MOB 1
Received : 18 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 18 Apr 2024 - Wes Davis

GFL Environmental - 554 - Edmonton SW
 8409 -15th Street NW
 Edmonton, AB
 CA T6P 0B8
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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.