



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
930003
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112568	GFL0097630	GFL0085949
Sample Date		Client Info		07 Apr 2024	16 Nov 2023	26 Jun 2023
Machine Age	hrs	Client Info		5551	4489	3379
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	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

An increase in the iron level is noted. All other component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	43	20	15
Chromium	ppm	ASTM D5185(m)	>4	3	1	1
Nickel	ppm	ASTM D5185(m)	>2	1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>9	4	5	4
Lead	ppm	ASTM D5185(m)	>30	2	5	3
Copper	ppm	ASTM D5185(m)	>35	2	3	3
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

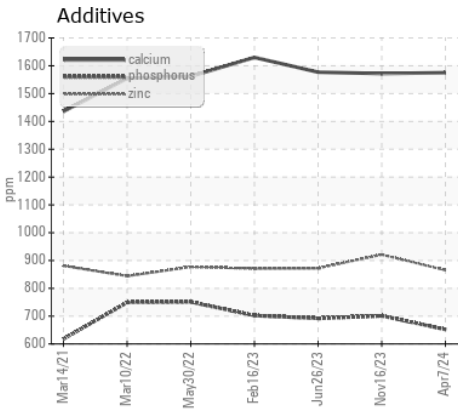
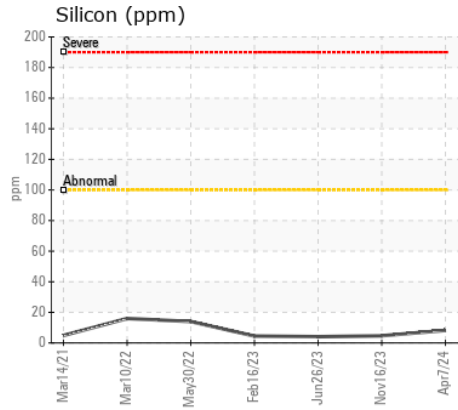
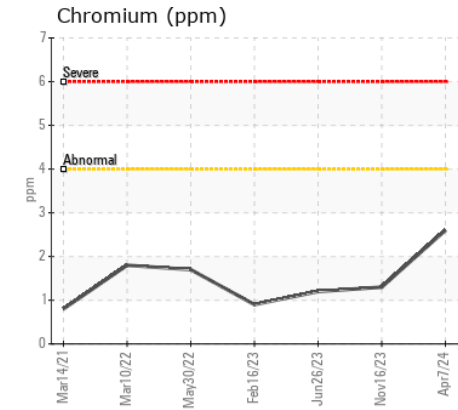
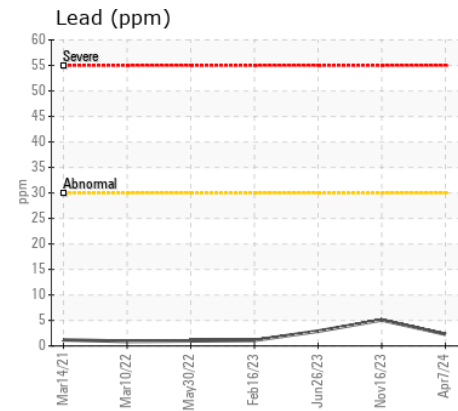
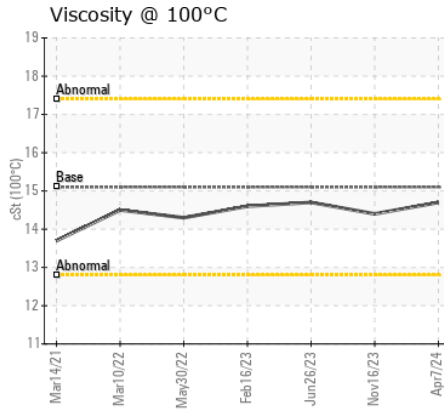
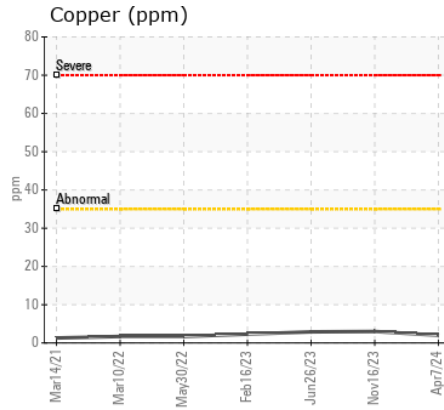
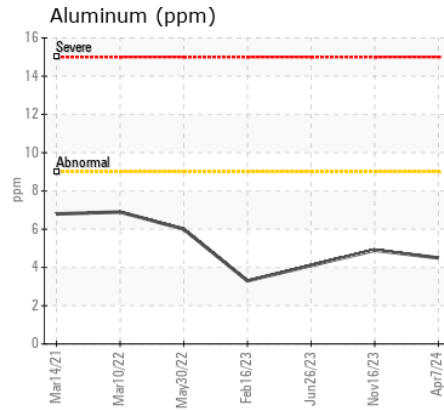
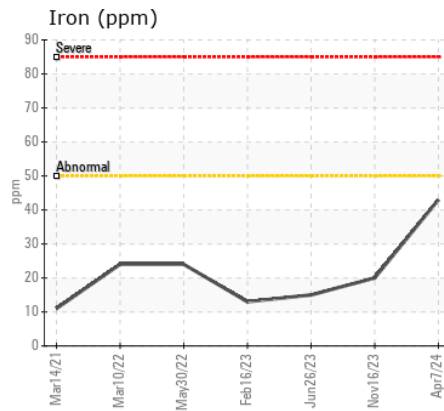
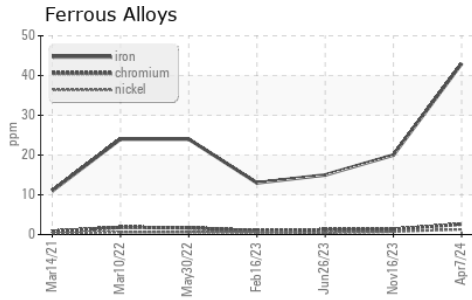
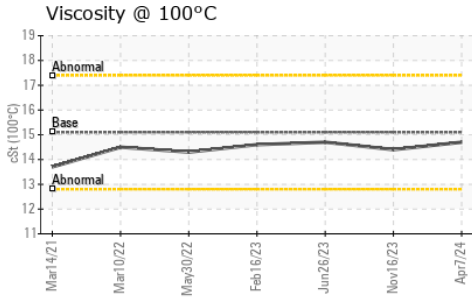
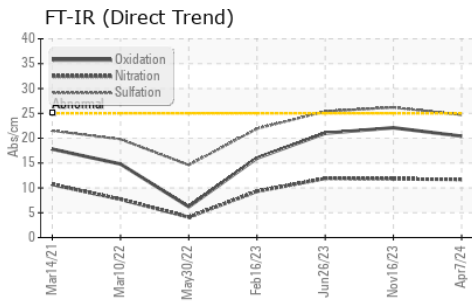
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	8	5	4
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	11.7	11.8	11.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.7	26.2	25.4
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		13	9	9
Boron	ppm	ASTM D5185(m)	50	5	5	6
Barium	ppm	ASTM D5185(m)	5	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	55	55	52
Manganese	ppm	ASTM D5185(m)	0	1	<1	<1
Magnesium	ppm	ASTM D5185(m)	560	546	593	563
Calcium	ppm	ASTM D5185(m)	1510	1575	1572	1577
Phosphorus	ppm	ASTM D5185(m)	780	652	701	692
Zinc	ppm	ASTM D5185(m)	870	865	921	872
Sulfur	ppm	ASTM D5185(m)	2040	1845	1938	1918
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.4	22.1	21.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.7	14.4	14.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112568
Lab Number : 02629875
Unique Number : 5763007
Test Package : MOB 1
Received : 18 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 18 Apr 2024 - Kevin Marson

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.