



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
801113
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112550	GFL0077962	GFL0054200
Sample Date		Client Info		23 Mar 2024	08 Apr 2023	13 Jun 2022
Machine Age	hrs	Client Info		12483	10917	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	14	14	21
Chromium	ppm	ASTM D5185(m)	>4	<1	1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	2	5	3
Lead	ppm	ASTM D5185(m)	>30	0	<1	3
Copper	ppm	ASTM D5185(m)	>35	<1	<1	2
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

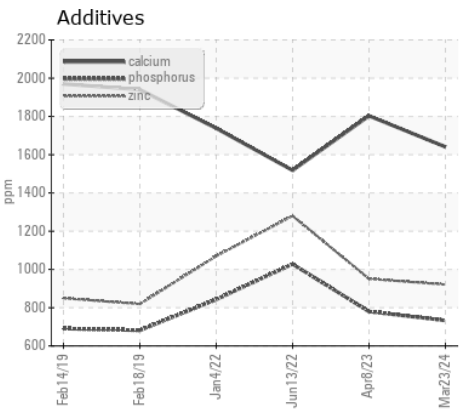
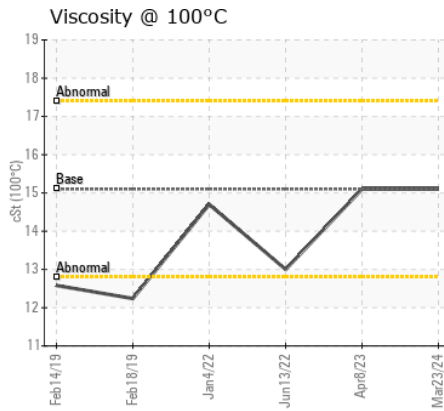
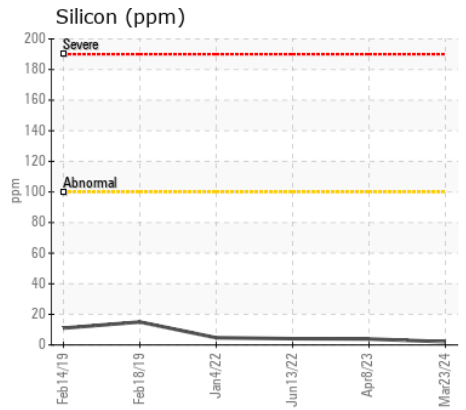
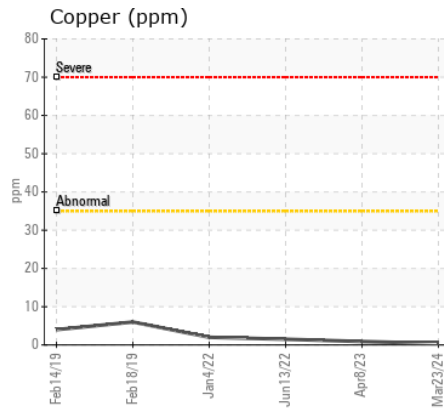
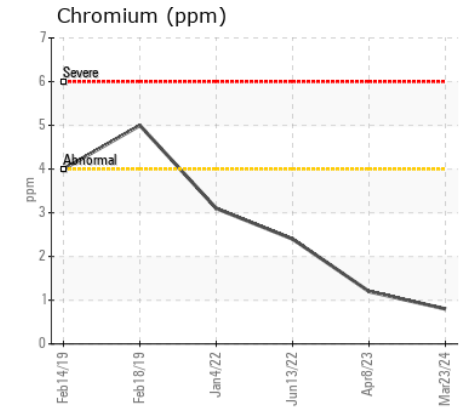
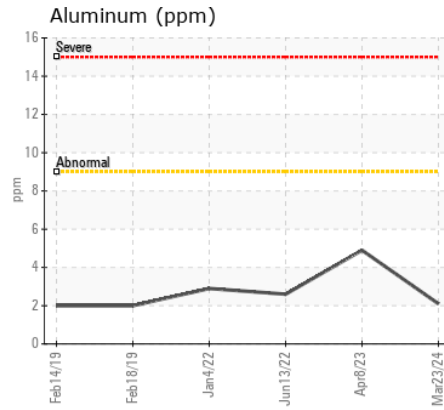
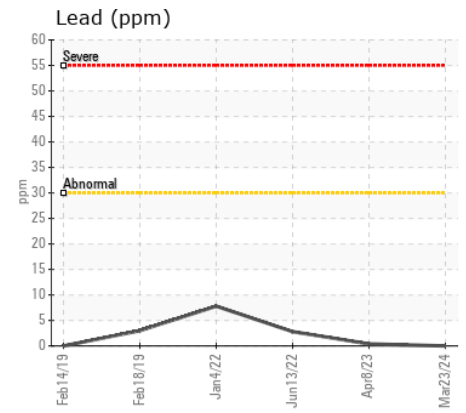
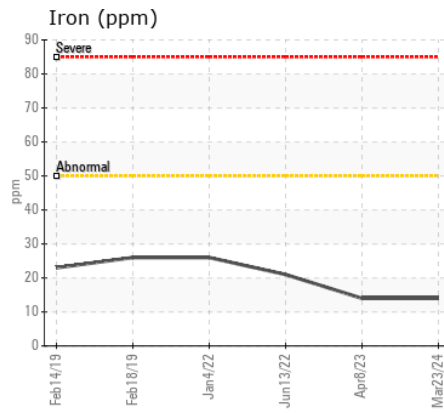
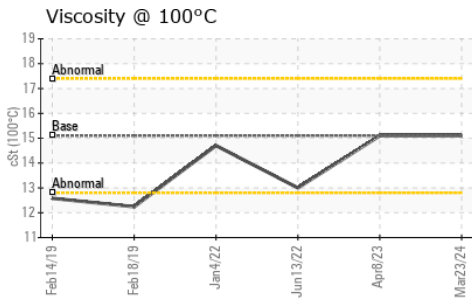
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	2	4	4
Potassium	ppm	ASTM D5185(m)	>20	2	11	1
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	10.0	11.6	11.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.2	24.9	28.6
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)		10	9	10
Boron	ppm	ASTM D5185(m)	50	17	8	5
Barium	ppm	ASTM D5185(m)	5	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	53	56	68
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	560	582	586	968
Calcium	ppm	ASTM D5185(m)	1510	1641	1803	1518
Phosphorus	ppm	ASTM D5185(m)	780	733	780	1028
Zinc	ppm	ASTM D5185(m)	870	921	951	1280
Sulfur	ppm	ASTM D5185(m)	2040	1883	2113	2380
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.8	20.9	21.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	15.1	15.1	13.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112550
Lab Number : 02624921
Unique Number : 5750040
Test Package : MOB 1
Received : 27 Mar 2024
Tested : 27 Mar 2024
Diagnosed : 27 Mar 2024 - Wes Davis

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