



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
731012
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0100722	GFL0079577	GFL0041619
Sample Date		Client Info		22 Feb 2024	05 Jul 2023	03 Jan 2023
Machine Age	hrs	Client Info		6291	78725	78725
Oil Age	hrs	Client Info		0	78725	0
Filter Age	hrs	Client Info		0	78725	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	14	19	18
Chromium	ppm	ASTM D5185(m)	>4	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>2	1	<1	1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	3	1	4
Lead	ppm	ASTM D5185(m)	>30	1	<1	4
Copper	ppm	ASTM D5185(m)	>35	2	3	2
Tin	ppm	ASTM D5185(m)	>4	<1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

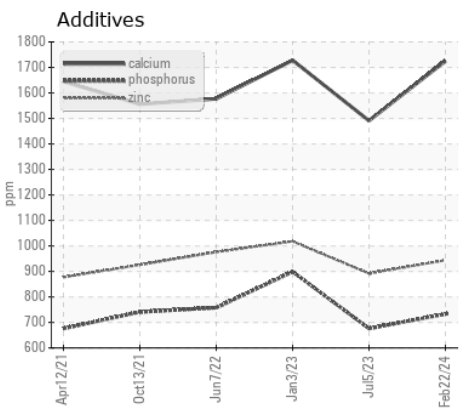
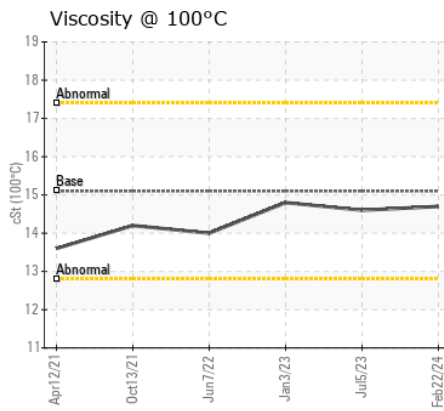
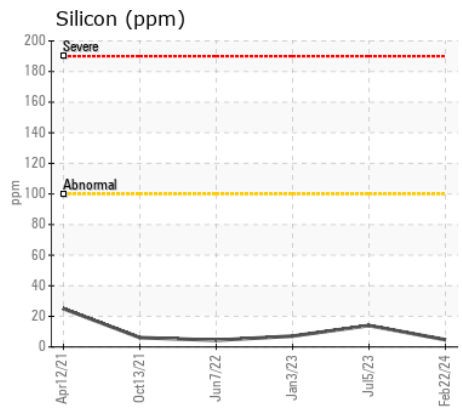
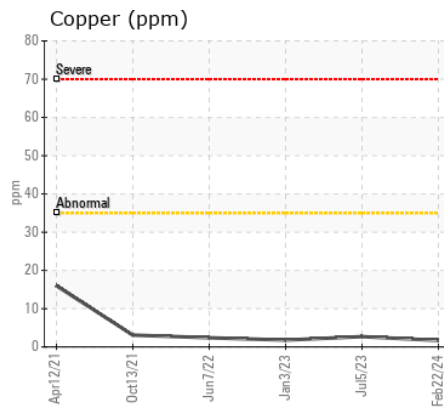
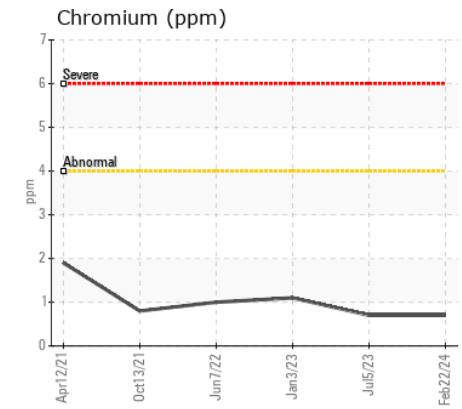
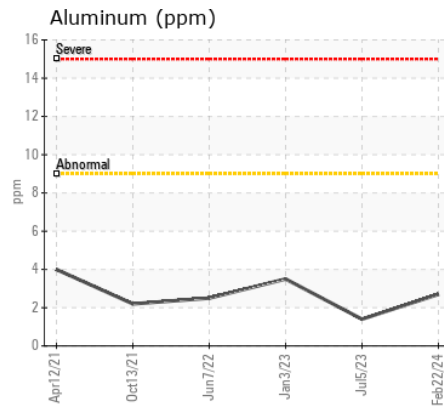
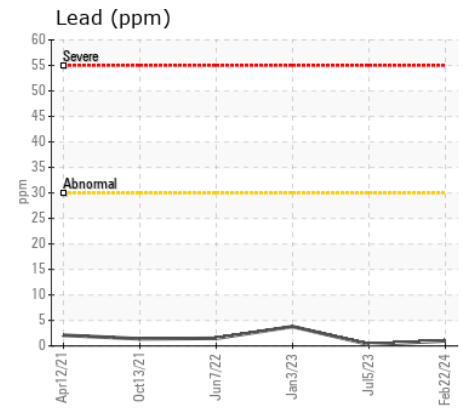
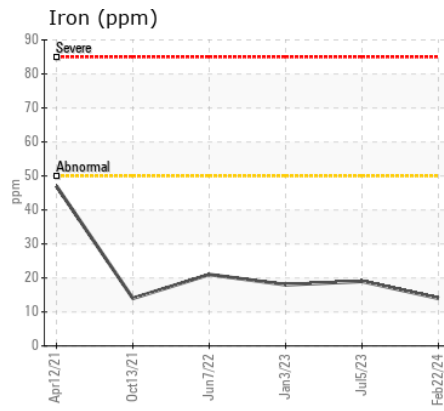
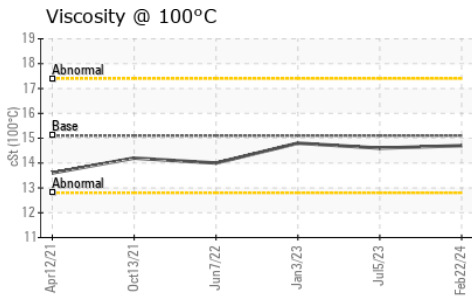
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	5	14	7
Potassium	ppm	ASTM D5185(m)	>20	5	29	▲ 540
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		---	0.0	● 0.355
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	12.4	11.1	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.9	22.3	20.4
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)		4	5	▲ 63
Boron	ppm	ASTM D5185(m)	50	5	8	5
Barium	ppm	ASTM D5185(m)	5	<1	5	0
Molybdenum	ppm	ASTM D5185(m)	50	56	52	68
Manganese	ppm	ASTM D5185(m)	0	<1	3	1
Magnesium	ppm	ASTM D5185(m)	560	562	538	650
Calcium	ppm	ASTM D5185(m)	1510	1725	1491	1728
Phosphorus	ppm	ASTM D5185(m)	780	733	676	899
Zinc	ppm	ASTM D5185(m)	870	944	892	1018
Sulfur	ppm	ASTM D5185(m)	2040	2176	1958	2172
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.0	18.4	12.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.7	14.6	14.8



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100722
Lab Number : 02618016
Unique Number : 5735126
Test Package : MOB 1

Received : 26 Feb 2024
Tested : 26 Feb 2024
Diagnosed : 26 Feb 2024 - Kevin Marson

GFL Environmental - 277 - Niagara Regional
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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.