



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
731004
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		GFL0100725	GFL0041646	GFL0041673
Sample Date		Client Info		23 Feb 2024	06 Apr 2023	05 Jul 2022
Machine Age	kms	Client Info		80831	56200	51933
Oil Age	kms	Client Info		0	1176	0
Filter Age	kms	Client Info		0	1176	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	15	11	16
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	2	1	2
Lead	ppm	ASTM D5185(m)	>30	<1	0	1
Copper	ppm	ASTM D5185(m)	>35	1	<1	2
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

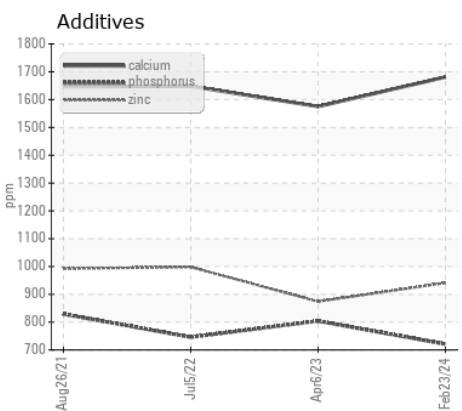
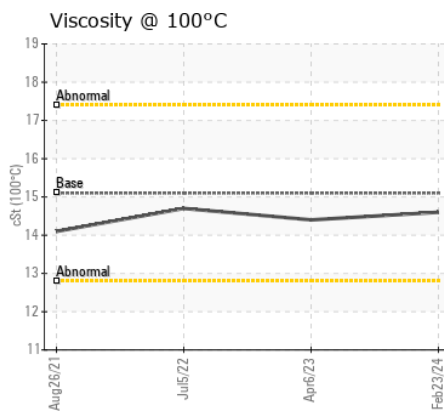
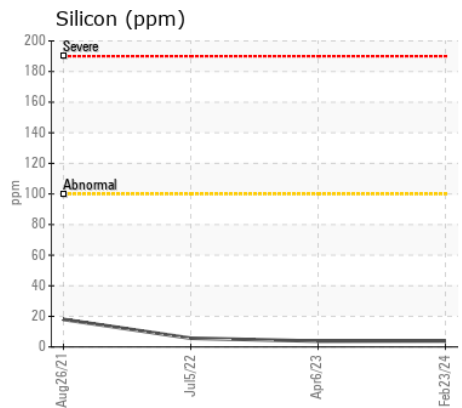
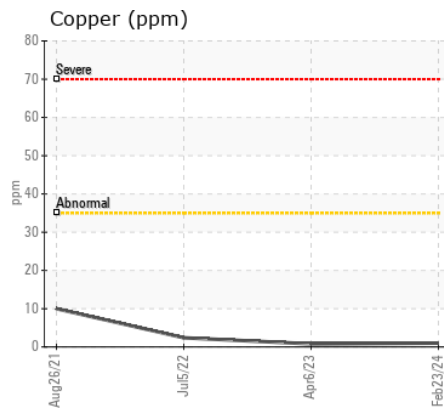
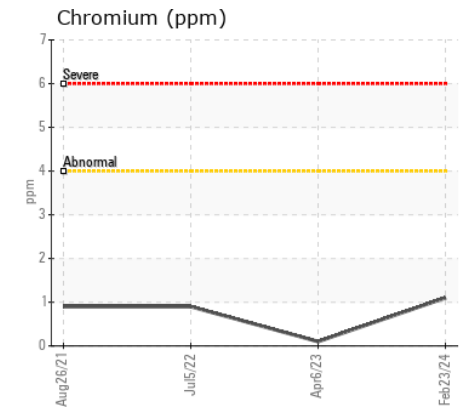
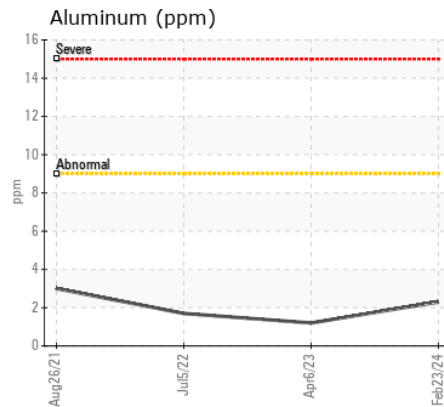
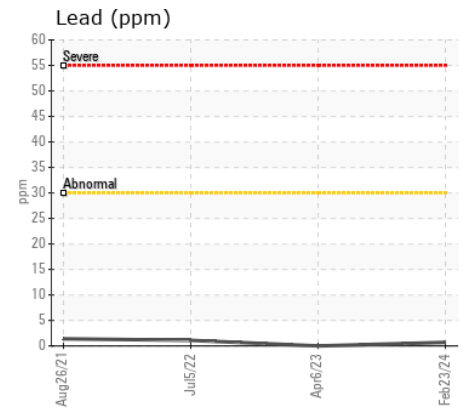
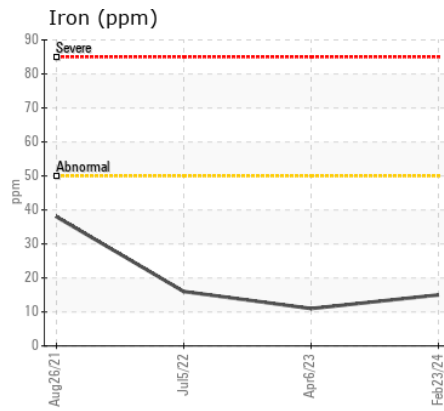
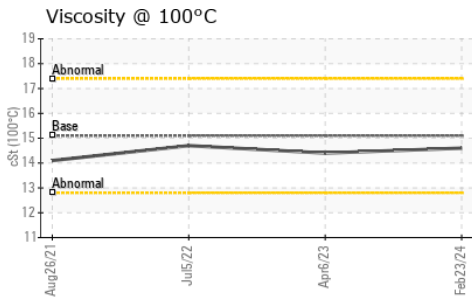
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	4	4	6
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		---	---	---
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	12.4	8.9	12.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.3	22.4	24.7
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)		2	3	4
Boron	ppm	ASTM D5185(m)	50	7	17	8
Barium	ppm	ASTM D5185(m)	5	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	55	48	60
Manganese	ppm	ASTM D5185(m)	0	<1	<1	2
Magnesium	ppm	ASTM D5185(m)	560	578	532	611
Calcium	ppm	ASTM D5185(m)	1510	1681	1575	1648
Phosphorus	ppm	ASTM D5185(m)	780	721	804	746
Zinc	ppm	ASTM D5185(m)	870	941	874	998
Sulfur	ppm	ASTM D5185(m)	2040	2133	2155	2212
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.6	16.4	20.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.6	14.4	14.7



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Sample No. : GFL0100725

Lab Number : 02618937

Unique Number : 5736047

Test Package : MOB 1

Received : 29 Feb 2024

Tested : 29 Feb 2024

Diagnosed : 29 Feb 2024 - Wes Davis

GFL Environmental - 277 - Niagara Regional

C/O Metro Truck Niagara Inc., 411 Glendale Avenue

St. Catharines, ON

CA L2P 3Y1

Contact: Kelly Bremner

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F:

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.