

Machine Id
831041
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		GFL0101691	GFL0085951	GFL0072855
Sample Date		Client Info		28 Dec 2023	19 Jun 2023	12 Mar 2023
Machine Age	hrs	Client Info		4593	1440	741
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	14	18	24
Chromium	ppm	ASTM D5185(m)	>4	1	2	3
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	3	3
Lead	ppm	ASTM D5185(m)	>30	3	1	1
Copper	ppm	ASTM D5185(m)	>35	2	1	2
Tin	ppm	ASTM D5185(m)	>4	<1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

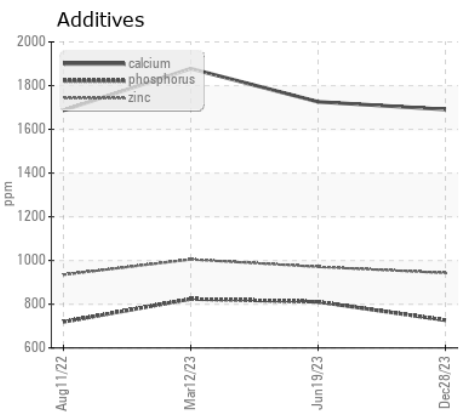
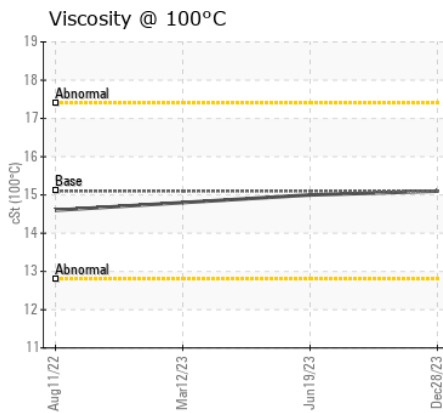
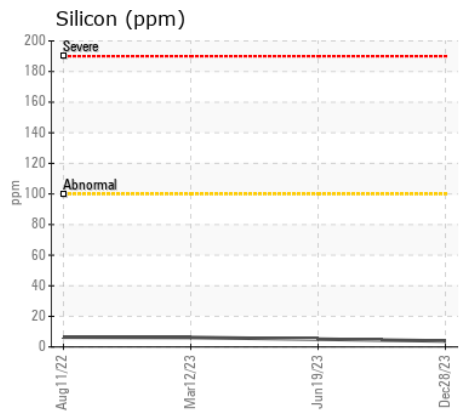
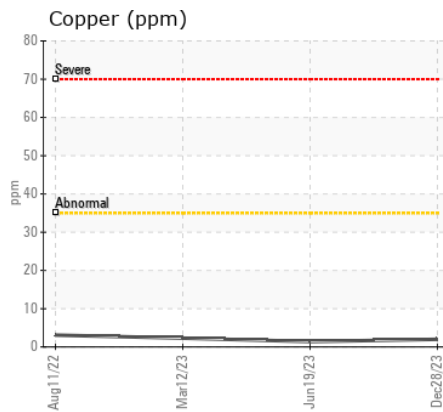
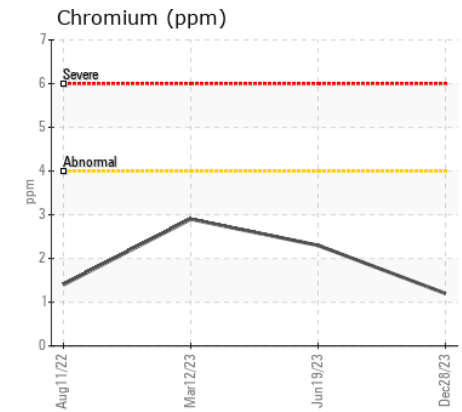
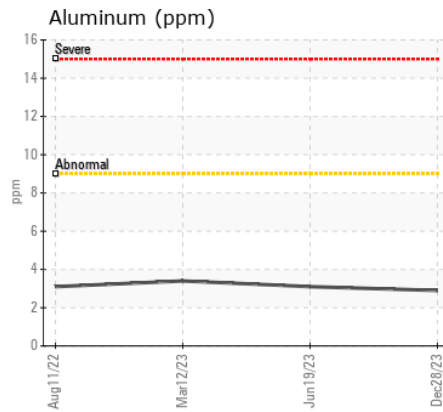
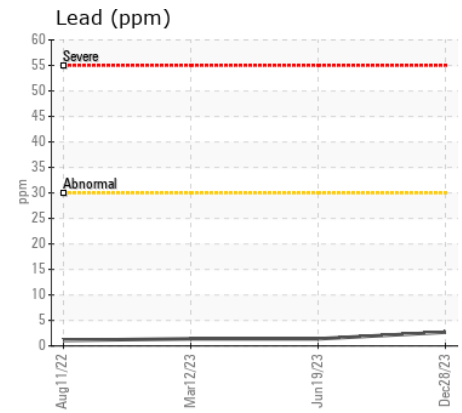
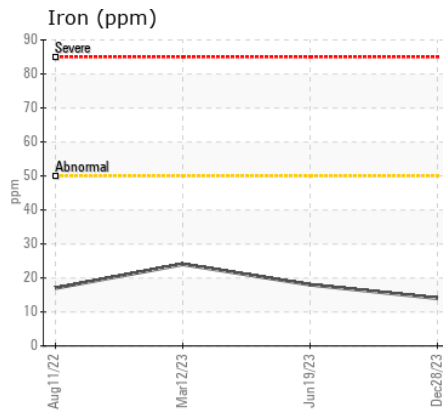
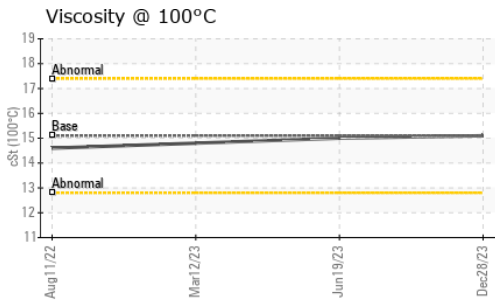
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	4	5	6
Potassium	ppm	ASTM D5185(m)	>20	4	4	3
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		---	---	---
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	12.8	12.9	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.0	26.8	23.9
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
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)		11	13	14
Boron	ppm	ASTM D5185(m)	50	5	5	6
Barium	ppm	ASTM D5185(m)	5	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	56	57	59
Manganese	ppm	ASTM D5185(m)	0	<1	1	1
Magnesium	ppm	ASTM D5185(m)	560	591	636	626
Calcium	ppm	ASTM D5185(m)	1510	1691	1726	1878
Phosphorus	ppm	ASTM D5185(m)	780	727	811	824
Zinc	ppm	ASTM D5185(m)	870	943	971	1005
Sulfur	ppm	ASTM D5185(m)	2040	2110	2075	2176
Oxidation	Abs/.1mm	ASTM D7414*	>25	24.7	22.5	15.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	15.1	15.0	14.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW
Sample No. : GFL0101691 **Received** : 05 Jan 2024
Lab Number : 02606667 **Diagnosed** : 05 Jan 2024
Unique Number : 5707753 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

8409 -15th Street NW
 Edmonton, AB
 CA T6P 0B8
 Contact: Tim Greig
 tgreig@gflenv.com
 T: (780)231-0521
 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.