



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
731029
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		GFL0100751	GFL0100720	GFL0079558
Sample Date		Client Info		15 Apr 2024	07 Feb 2024	04 May 2023
Machine Age	kms	Client Info		118286	118286	4979
Oil Age	kms	Client Info		0	0	1122
Filter Age	kms	Client Info		0	0	1122
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	9	22	11
Chromium	ppm	ASTM D5185(m)	>4	<1	2	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>9	3	8	2
Lead	ppm	ASTM D5185(m)	>30	<1	3	1
Copper	ppm	ASTM D5185(m)	>35	<1	4	<1
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

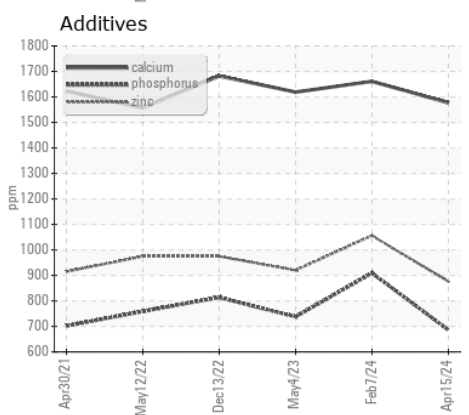
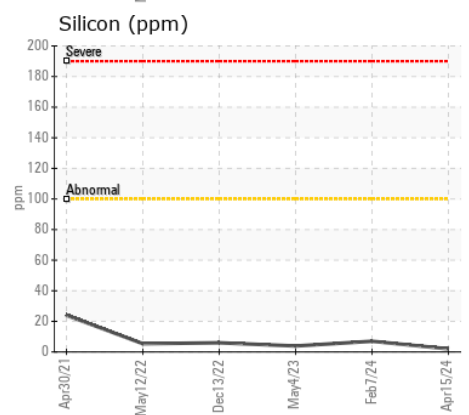
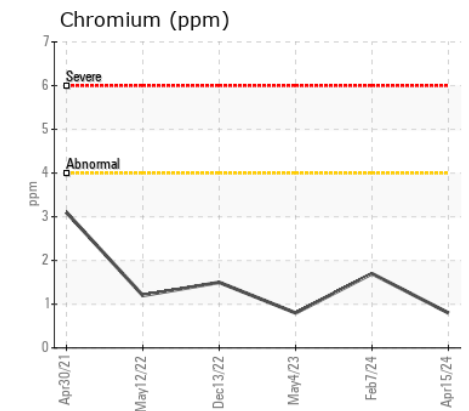
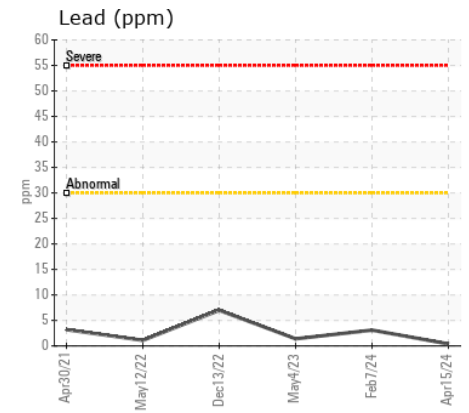
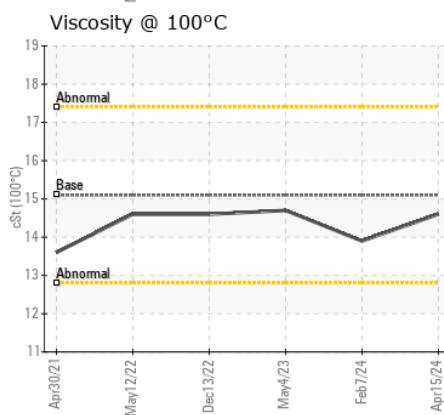
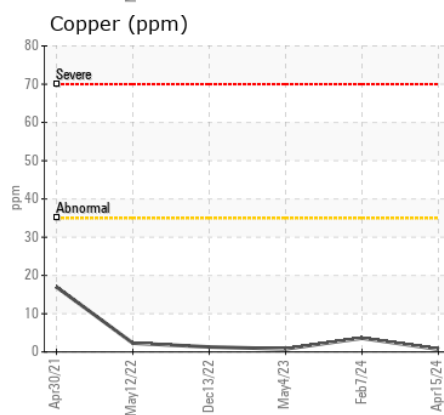
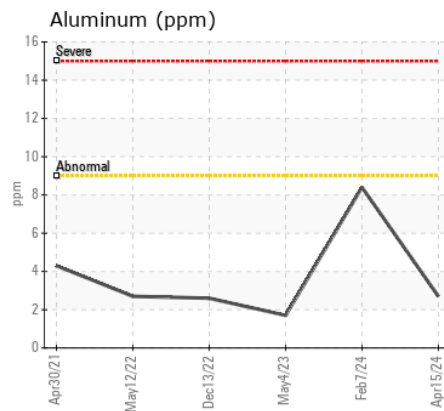
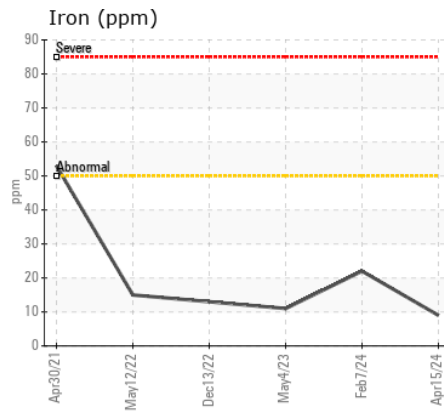
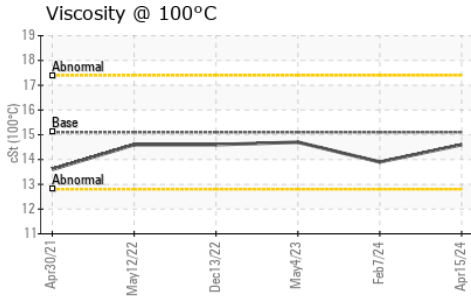
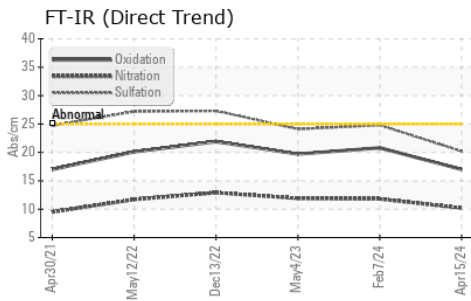
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	2	7	4
Potassium	ppm	ASTM D5185(m)	>20	4	12	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		---	0.0	---
Soot %	%	ASTM D7844*		0	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	10.2	11.8	11.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	24.8	24.1
Emulsified Water	scalar	Visual*	>0.1	NEG	.2%	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		2	6	3
Boron	ppm	ASTM D5185(m)	50	12	30	6
Barium	ppm	ASTM D5185(m)	5	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	50	66	53
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	560	526	534	554
Calcium	ppm	ASTM D5185(m)	1510	1577	1661	1619
Phosphorus	ppm	ASTM D5185(m)	780	686	909	738
Zinc	ppm	ASTM D5185(m)	870	876	1056	920
Sulfur	ppm	ASTM D5185(m)	2040	1941	2604	2058
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.0	20.8	19.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.6	13.9	14.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100751
Lab Number : 02630071
Unique Number : 5763203
Test Package : MOB 1

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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.