



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
801135
 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		GFL0096770	GFL0063661	GFL0057509
Sample Date		Client Info		01 Jul 2024	18 Jul 2023	25 Jan 2023
Machine Age	kms	Client Info		273769	14947	13891
Oil Age	kms	Client Info		0	600	600
Filter Age	kms	Client Info		0	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	8	11	11
Chromium	ppm	ASTM D5185(m)	>4	<1	1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	1	2	2
Lead	ppm	ASTM D5185(m)	>30	0	1	2
Copper	ppm	ASTM D5185(m)	>35	4	13	36
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

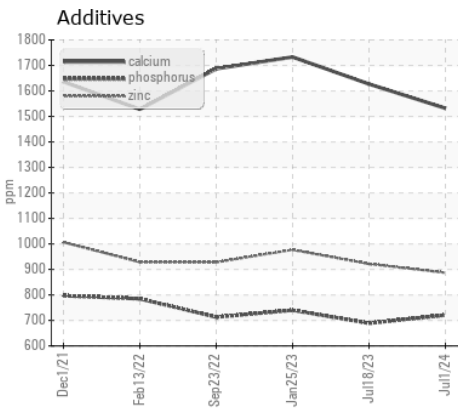
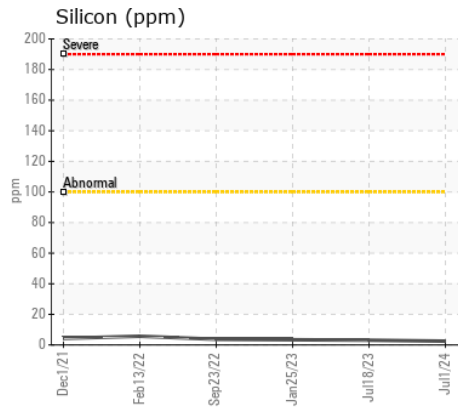
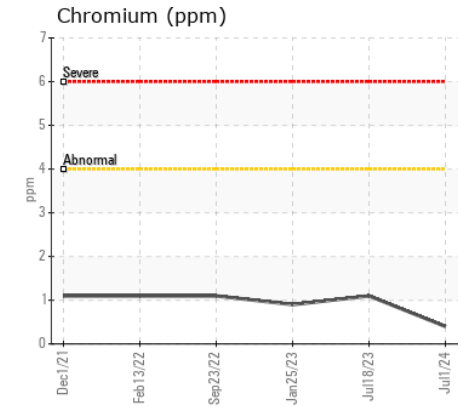
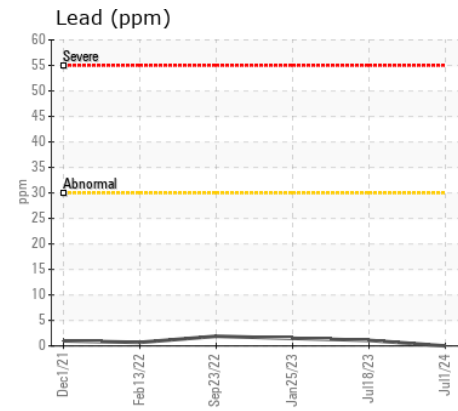
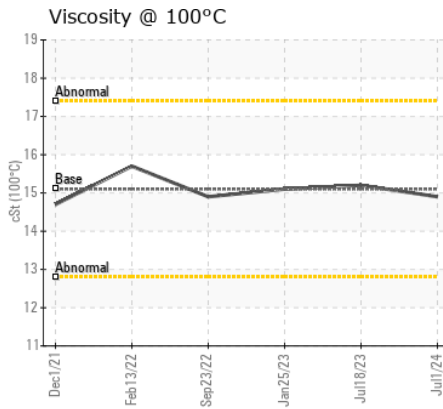
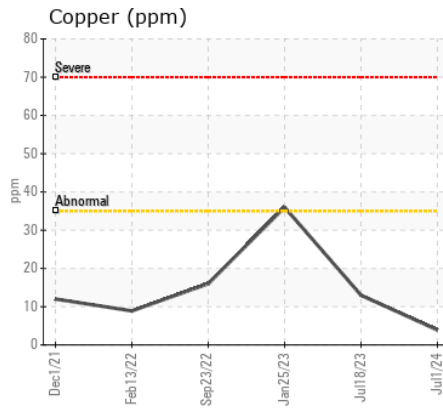
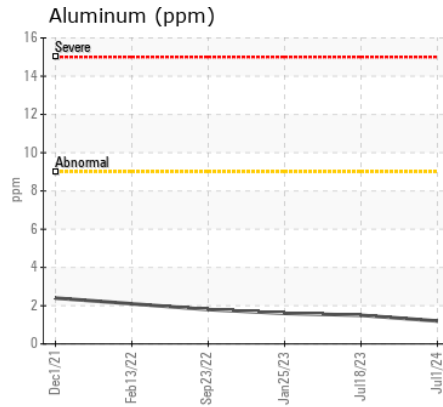
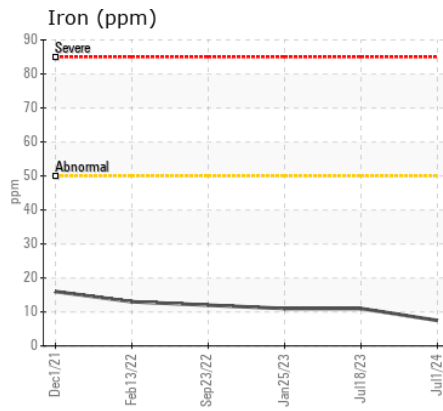
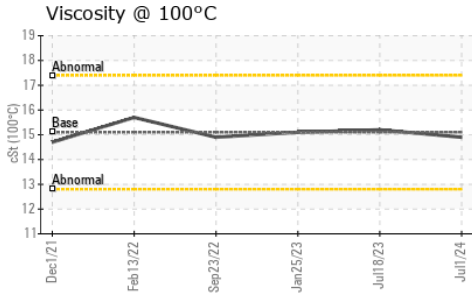
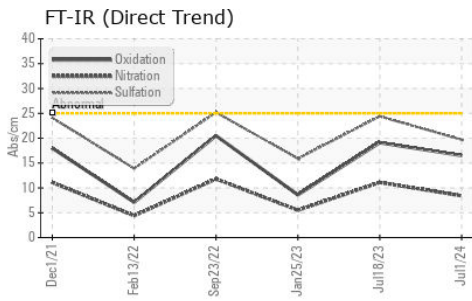
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	2	3	3
Potassium	ppm	ASTM D5185(m)	>20	0	1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		---	---	---
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	8.4	11.1	5.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.7	24.4	15.9
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)		5	8	9
Boron	ppm	ASTM D5185(m)	50	29	6	10
Barium	ppm	ASTM D5185(m)	5	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	48	55	55
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	560	549	577	563
Calcium	ppm	ASTM D5185(m)	1510	1532	1627	1733
Phosphorus	ppm	ASTM D5185(m)	780	721	689	740
Zinc	ppm	ASTM D5185(m)	870	887	922	977
Sulfur	ppm	ASTM D5185(m)	2040	2030	1987	2105
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.5	19.1	8.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.9	15.2	15.1



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0096770
Lab Number : 02644761
Unique Number : 5802300
Test Package : MOB 1

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 Coquitlam, BC
 CA V3K 6B5
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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.