

Machine Id
9258
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		GFL0112529	GFL0101698	GFL0085923
Sample Date		Client Info		17 May 2024	21 Dec 2023	04 Jul 2023
Machine Age	hrs	Client Info		2001	902	17061
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		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	27	25	18
Chromium	ppm	ASTM D5185(m)	>5	3	2	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>5	0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	4	5	5
Lead	ppm	ASTM D5185(m)	>40	<1	2	5
Copper	ppm	ASTM D5185(m)	>150	2	2	3
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

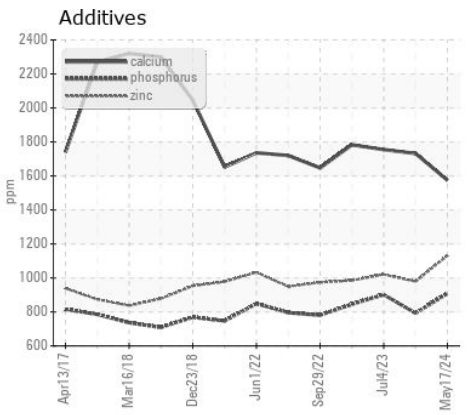
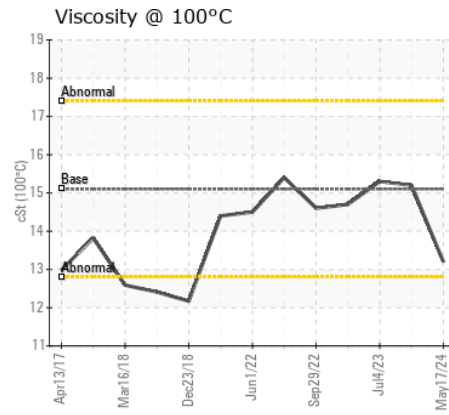
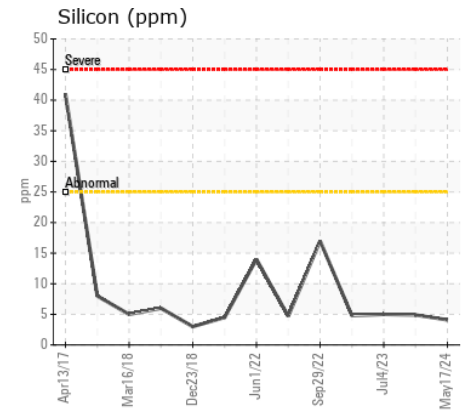
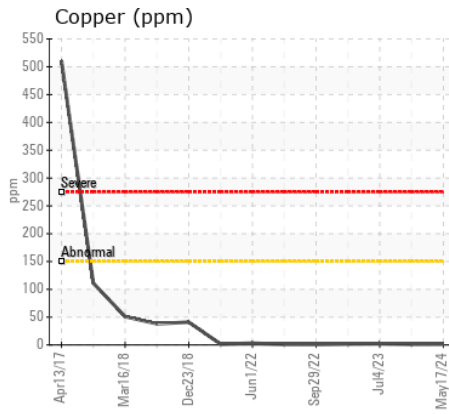
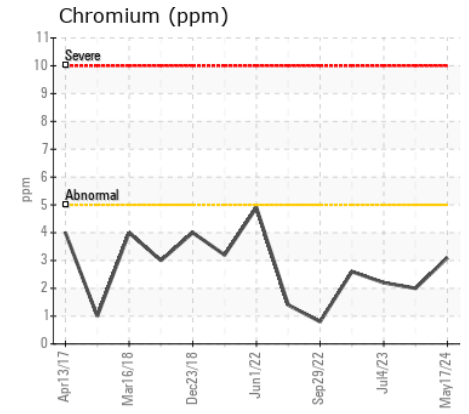
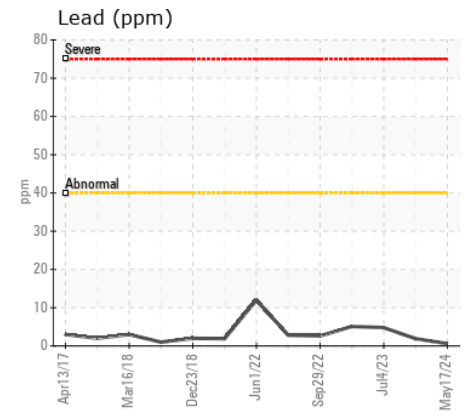
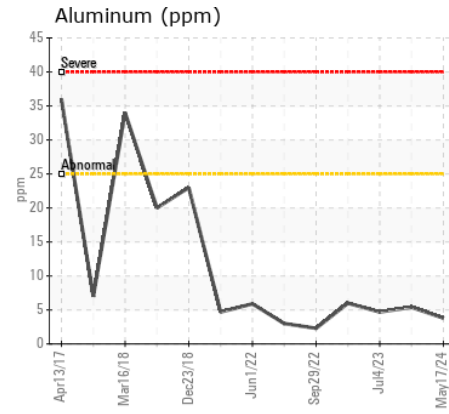
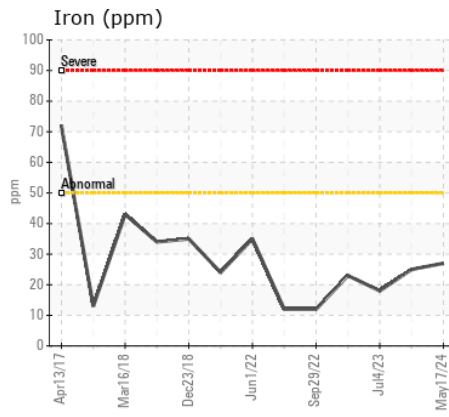
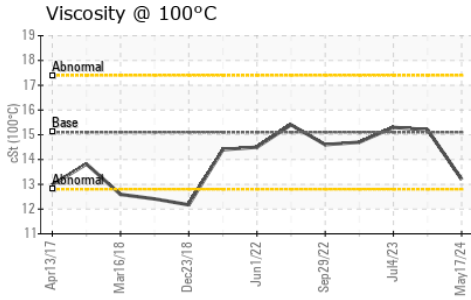
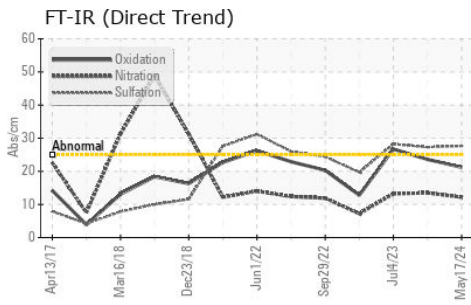
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	5	5
Potassium	ppm	ASTM D5185(m)	>20	7	12	10
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		---	---	0.0
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	12.2	13.5	13.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.6	27.3	28.2
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)		10	10	12
Boron	ppm	ASTM D5185(m)	50	4	8	14
Barium	ppm	ASTM D5185(m)	5	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	65	58	58
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	560	847	637	662
Calcium	ppm	ASTM D5185(m)	1510	1575	1732	1755
Phosphorus	ppm	ASTM D5185(m)	780	909	793	902
Zinc	ppm	ASTM D5185(m)	870	1131	979	1021
Sulfur	ppm	ASTM D5185(m)	2040	2187	2135	2038
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.2	23.6	26.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	13.2	15.2	15.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112529
Lab Number : 02638389
Unique Number : 5787551
Test Package : MOB 1

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 Edmonton, AB
 CA T6P 0B8
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 T: (780)231-0521
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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.