



Machine Id
731071
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0117153	GFL0060979	GFL0044185
Sample Date		Client Info		03 Apr 2024	05 Oct 2022	23 Mar 2022
Machine Age	hrs	Client Info		5506	2726	1688
Oil Age	hrs	Client Info		600	1200	500
Filter Age	hrs	Client Info		600	1200	500
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	15	10	20
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	<1
Aluminum	ppm	ASTM D5185(m)	>9	2	2	2
Lead	ppm	ASTM D5185(m)	>30	8	2	<1
Copper	ppm	ASTM D5185(m)	>35	1	2	3
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

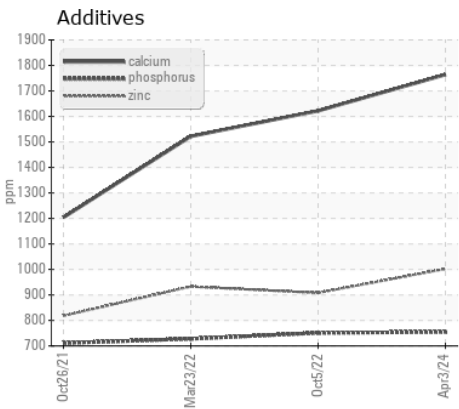
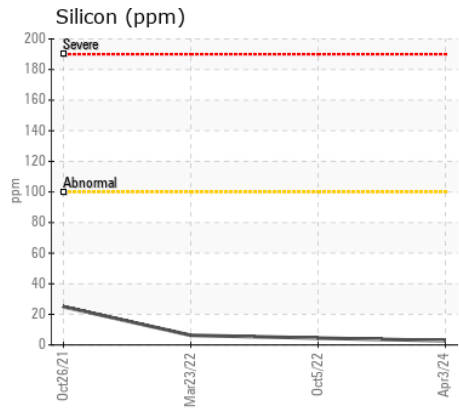
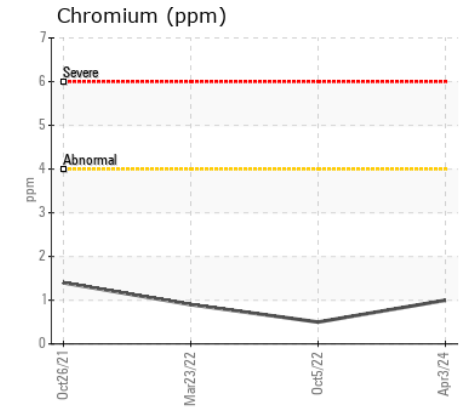
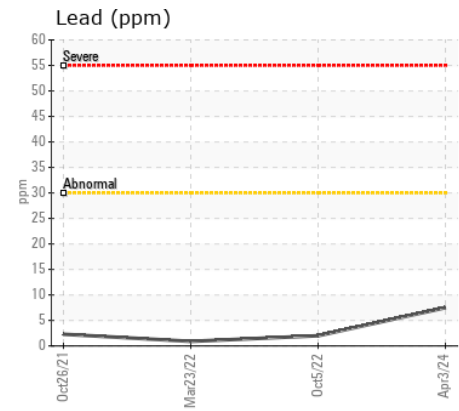
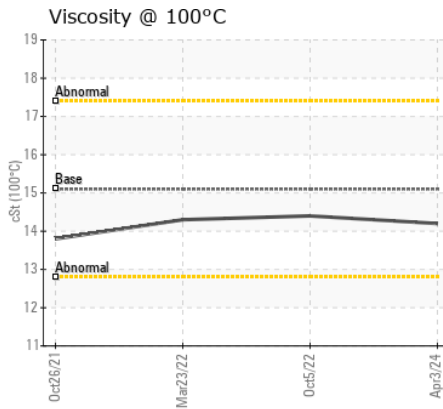
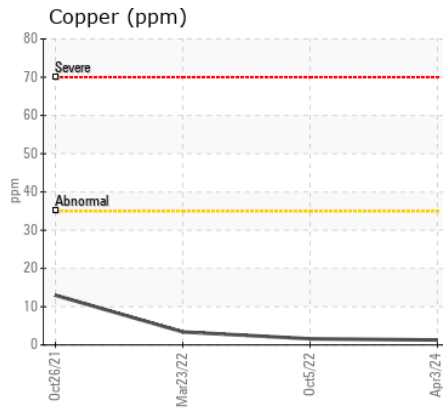
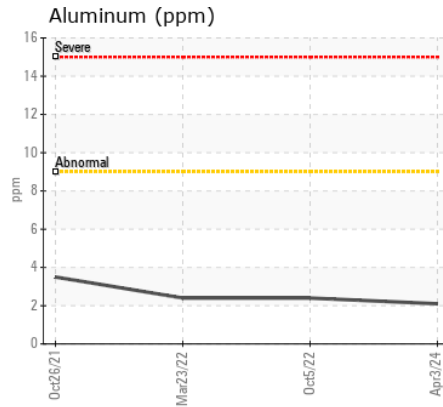
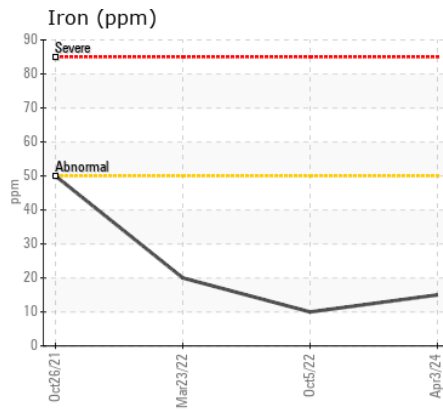
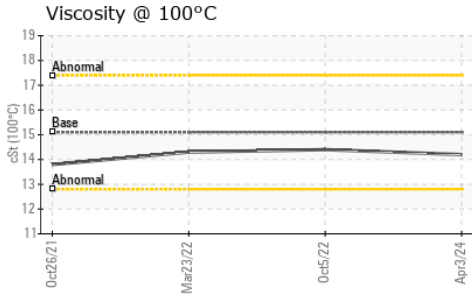
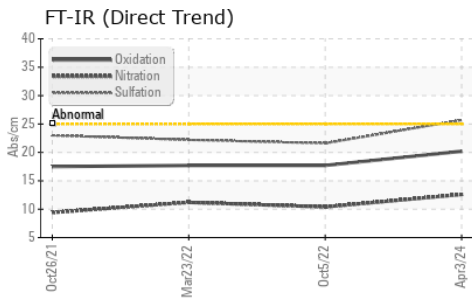
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	3	4	6
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	12.6	10.4	11.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.7	21.6	22.2
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)		9	7	6
Boron	ppm	ASTM D5185(m)	50	7	20	13
Barium	ppm	ASTM D5185(m)	5	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	60	62	61
Manganese	ppm	ASTM D5185(m)	0	0	<1	2
Magnesium	ppm	ASTM D5185(m)	560	635	582	599
Calcium	ppm	ASTM D5185(m)	1510	1764	1622	1522
Phosphorus	ppm	ASTM D5185(m)	780	755	751	728
Zinc	ppm	ASTM D5185(m)	870	1002	908	933
Sulfur	ppm	ASTM D5185(m)	2040	2114	2113	2048
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.2	17.7	17.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.2	14.4	14.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0117153
Lab Number : 02626850
Unique Number : 5759982
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.