



Machine Id
731064
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		GFL0110249	GFL0097783	GFL0071076
Sample Date		Client Info		27 Feb 2024	27 Dec 2023	08 Mar 2023
Machine Age	hrs	Client Info		3602	3303	2170
Oil Age	hrs	Client Info		1200	0	1200
Filter Age	hrs	Client Info		1200	0	1200
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	9	18	10
Chromium	ppm	ASTM D5185(m)	>4	<1	2	<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	2	3	2
Lead	ppm	ASTM D5185(m)	>30	3	11	<1
Copper	ppm	ASTM D5185(m)	>35	<1	2	1
Tin	ppm	ASTM D5185(m)	>4	<1	1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

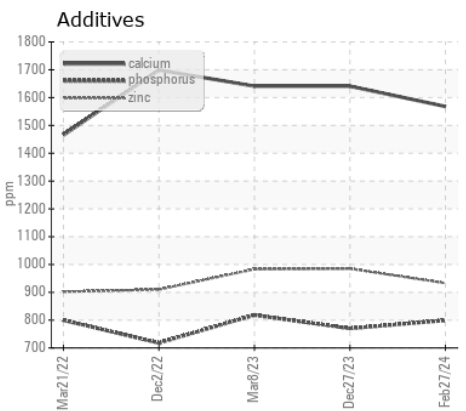
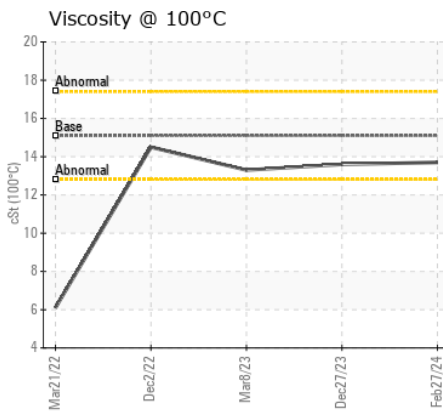
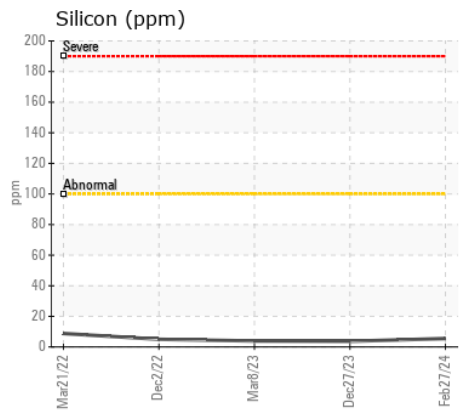
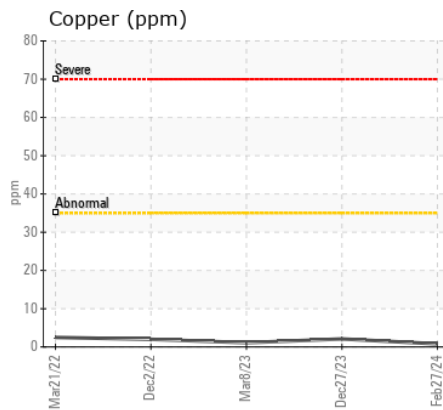
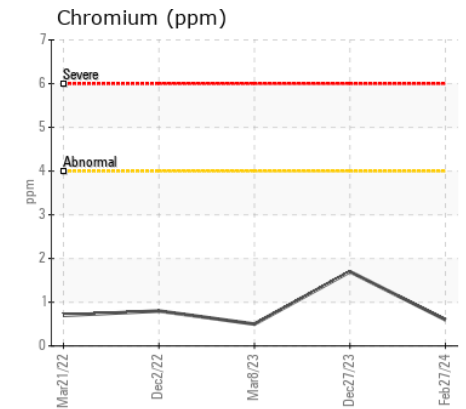
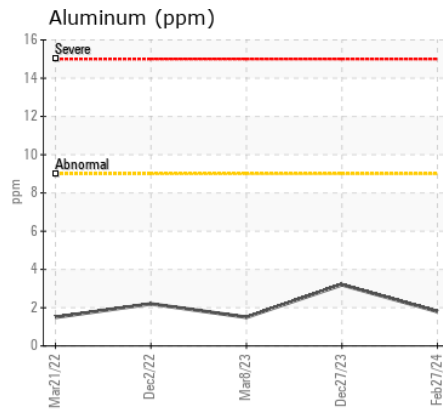
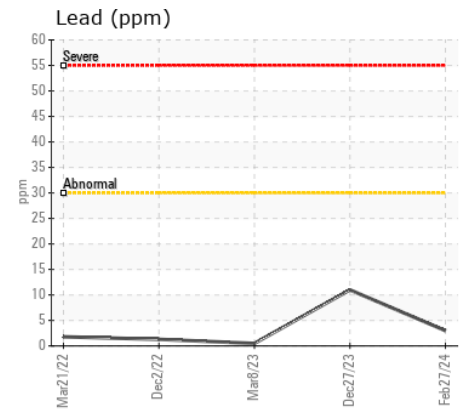
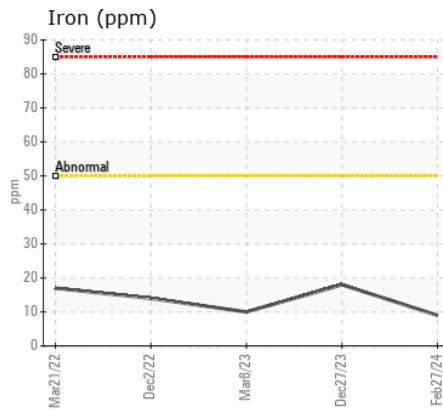
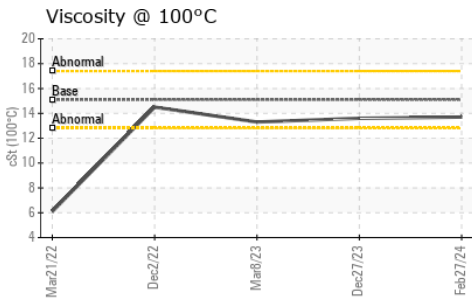
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	6	4	4
Potassium	ppm	ASTM D5185(m)	>20	1	3	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	10.6	12.9	11.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.2	27.7	22.4
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)		8	11	8
Boron	ppm	ASTM D5185(m)	50	21	6	12
Barium	ppm	ASTM D5185(m)	5	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	50	61	53
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	560	604	649	623
Calcium	ppm	ASTM D5185(m)	1510	1568	1641	1641
Phosphorus	ppm	ASTM D5185(m)	780	799	770	818
Zinc	ppm	ASTM D5185(m)	870	933	985	983
Sulfur	ppm	ASTM D5185(m)	2040	2253	2272	2172
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.0	21.6	17.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	13.7	13.6	13.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0110249
Lab Number : 02619501
Unique Number : 5736611
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.