



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
831050

Component
Diesel 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		GFL0112393	GFL0091631	GFL0070733
Sample Date		Client Info		26 Feb 2024	25 Sep 2023	27 Feb 2023
Machine Age	hrs	Client Info		3313	2618	1547
Oil Age	hrs	Client Info		0	1072	561
Filter Age	hrs	Client Info		0	1072	561
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)	>120	19	17	25
Chromium	ppm	ASTM D5185(m)	>20	2	2	2
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	3	3	2
Lead	ppm	ASTM D5185(m)	>40	2	2	<1
Copper	ppm	ASTM D5185(m)	>330	1	2	5
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

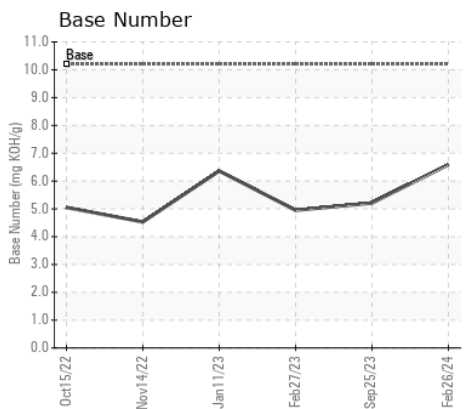
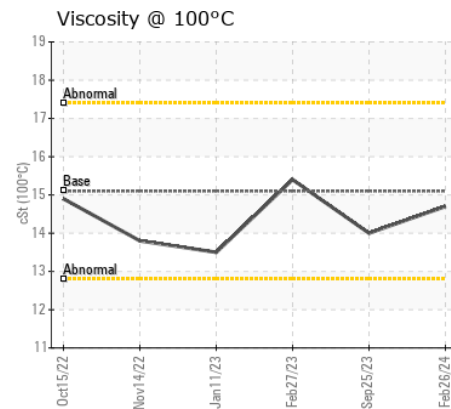
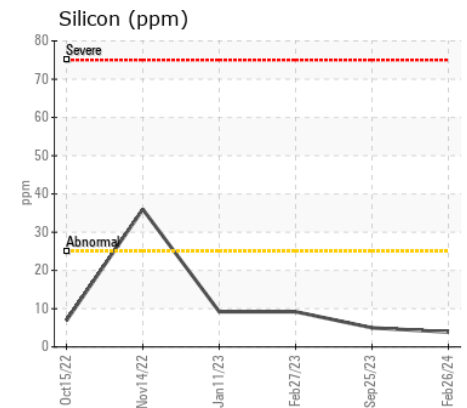
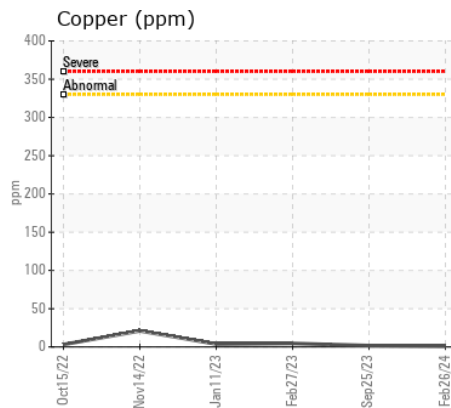
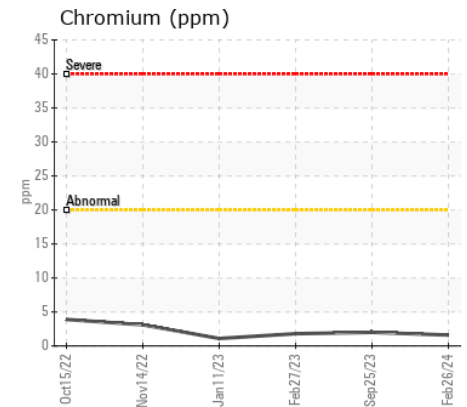
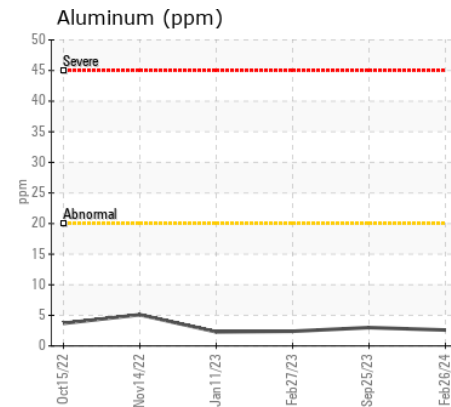
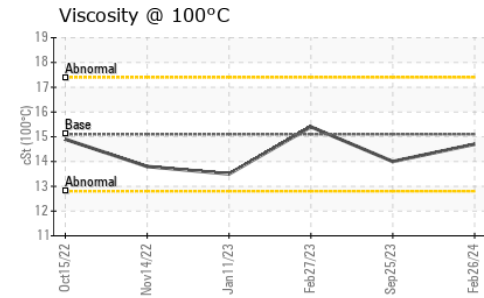
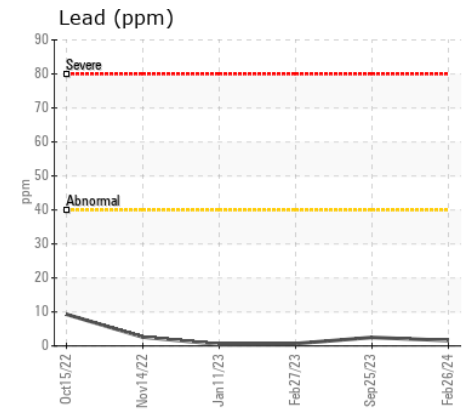
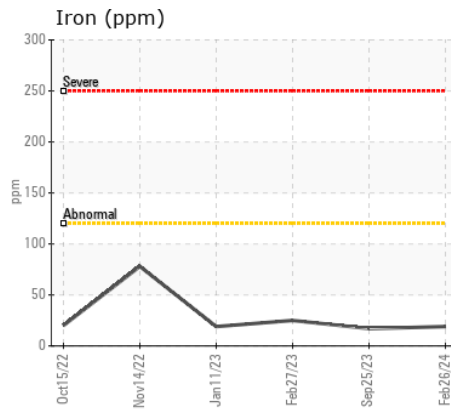
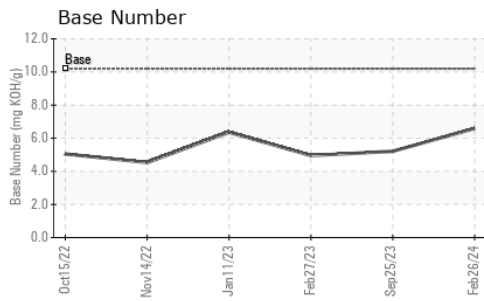
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	5	9
Potassium	ppm	ASTM D5185(m)	>20	3	8	1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	12.4	11.6	9.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.6	26.2	22.1
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		9	10	9
Boron	ppm	ASTM D5185(m)	50	8	6	8
Barium	ppm	ASTM D5185(m)	5	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	53	56	54
Manganese	ppm	ASTM D5185(m)	0	<1	<1	2
Magnesium	ppm	ASTM D5185(m)	560	567	585	570
Calcium	ppm	ASTM D5185(m)	1510	1657	1658	1637
Phosphorus	ppm	ASTM D5185(m)	780	722	734	720
Zinc	ppm	ASTM D5185(m)	870	920	963	905
Sulfur	ppm	ASTM D5185(m)	2040	2073	1974	2053
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.6	21.2	15.5
Base Number (BN)	mg KOH/g	ASTM D2896*	10.2	6.59	5.21	4.95
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.7	14.0	15.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112393
Lab Number : 02619525
Unique Number : 5736635
Test Package : MOB 2
Received : 04 Mar 2024
Tested : 05 Mar 2024
Diagnosed : 05 Mar 2024 - Kevin Marson

GFL Environmental - 550 - Rocky View County
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 Rocky View County, AB
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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.