



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
830012
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		GFL0102661	GFL0102636	GFL0064105
Sample Date		Client Info		24 Feb 2024	08 Jan 2024	16 Feb 2023
Machine Age	hrs	Client Info		9455	9150	0
Oil Age	hrs	Client Info		0	0	7037
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	16	12	12
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	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>9	2	2	2
Lead	ppm	ASTM D5185(m)	>30	<1	<1	2
Copper	ppm	ASTM D5185(m)	>35	<1	1	<1
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

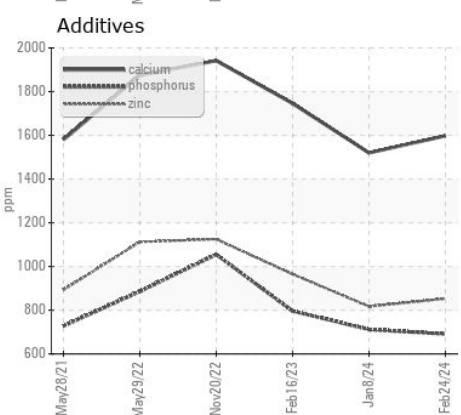
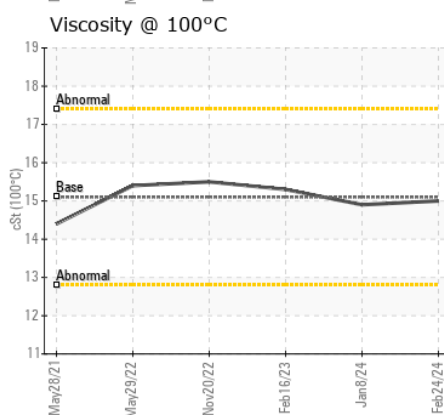
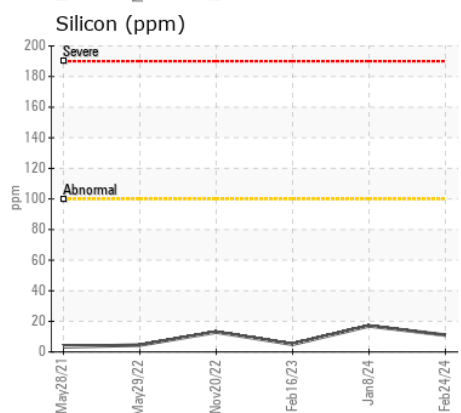
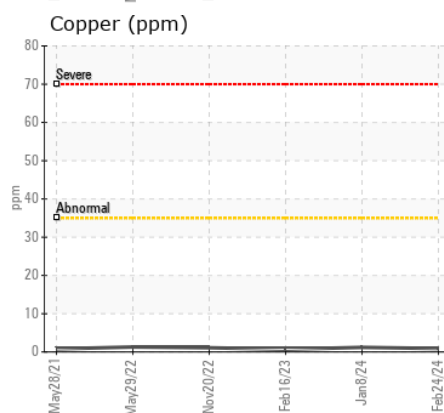
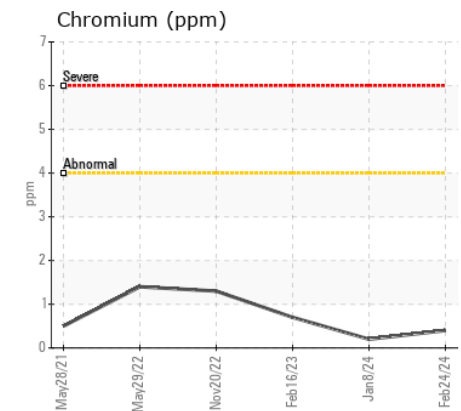
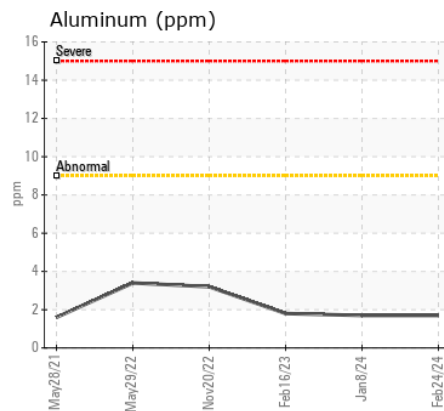
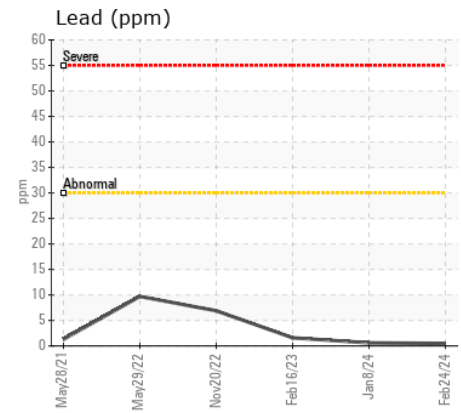
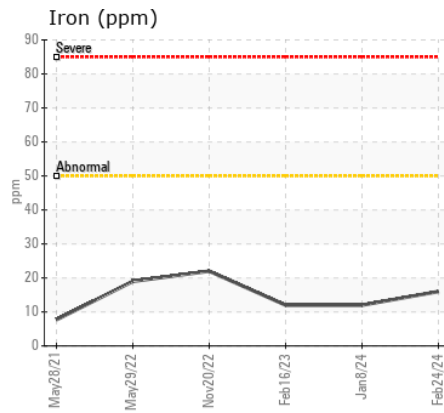
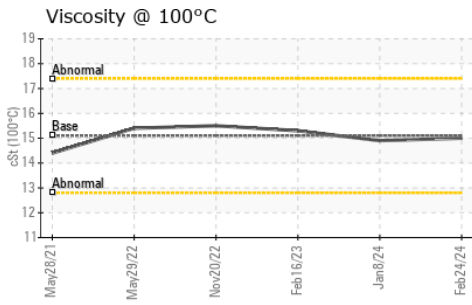
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	11	17	5
Potassium	ppm	ASTM D5185(m)	>20	<1	1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	10.3	7.8	6.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	19.3	17.3
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)		7	7	13
Boron	ppm	ASTM D5185(m)	50	12	23	13
Barium	ppm	ASTM D5185(m)	5	<1	3	0
Molybdenum	ppm	ASTM D5185(m)	50	52	48	55
Manganese	ppm	ASTM D5185(m)	0	<1	2	<1
Magnesium	ppm	ASTM D5185(m)	560	548	537	586
Calcium	ppm	ASTM D5185(m)	1510	1598	1520	1746
Phosphorus	ppm	ASTM D5185(m)	780	691	712	796
Zinc	ppm	ASTM D5185(m)	870	853	817	965
Sulfur	ppm	ASTM D5185(m)	2040	2059	2051	2060
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.3	16.5	10.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	15.0	14.9	15.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0102661
Lab Number : 02620179
Unique Number : 5737289
Test Package : MOB 1
Received : 06 Mar 2024
Tested : 06 Mar 2024
Diagnosed : 06 Mar 2024 - Wes Davis

GFL Environmental - 554 - Edmonton SW
 8409 -15th Street NW
 Edmonton, AB
 CA T6P 0B8
 Contact: Tim Greig
 tgreig@gflenv.com
 T: (780)231-0521
 F:

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.