



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
731073
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		GFL0117136	GFL0097769	GFL0085877
Sample Date		Client Info		13 May 2024	26 Oct 2023	30 Aug 2023
Machine Age	hrs	Client Info		4818	3682	3360
Oil Age	hrs	Client Info		1136	1200	1200
Filter Age	hrs	Client Info		1136	1200	1200
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)	>50	12	8	22
Chromium	ppm	ASTM D5185(m)	>4	<1	<1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>9	1	1	2
Lead	ppm	ASTM D5185(m)	>30	5	3	16
Copper	ppm	ASTM D5185(m)	>35	3	2	3
Tin	ppm	ASTM D5185(m)	>4	<1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

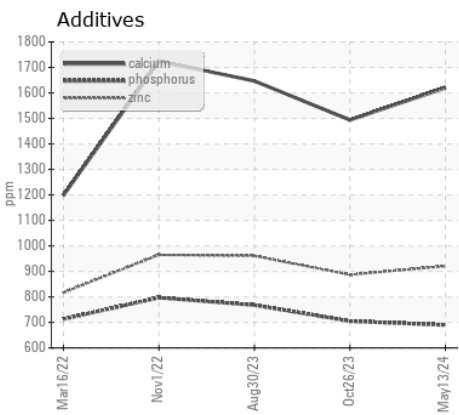
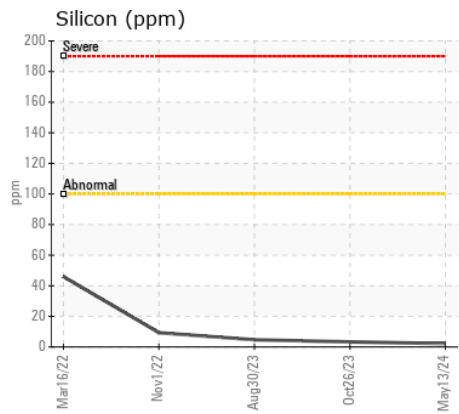
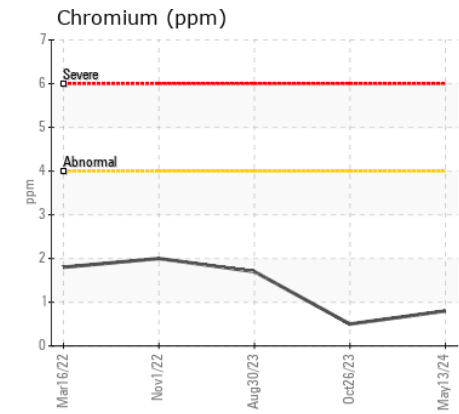
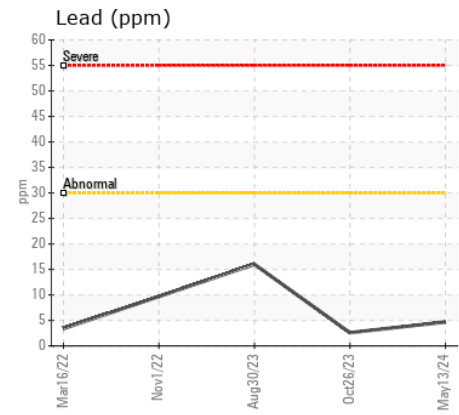
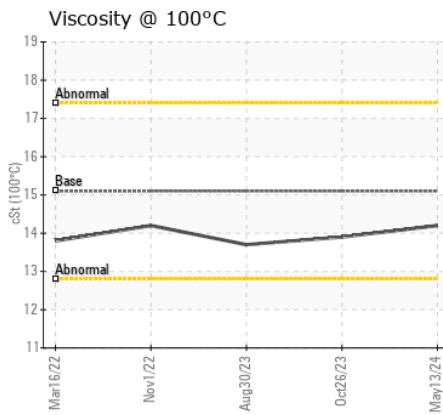
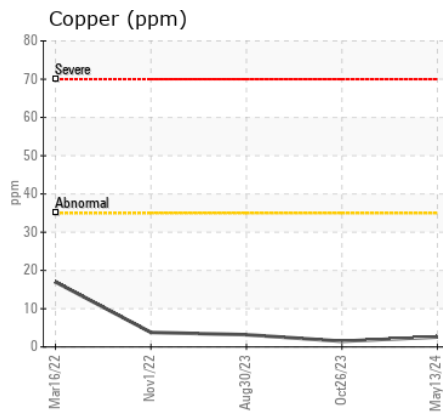
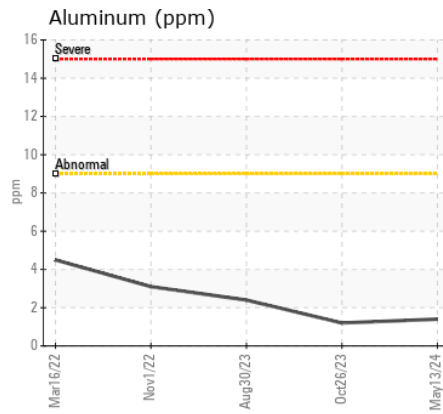
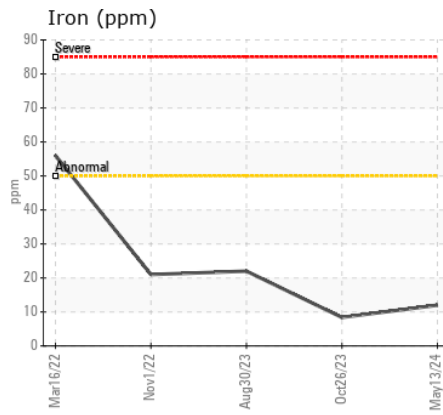
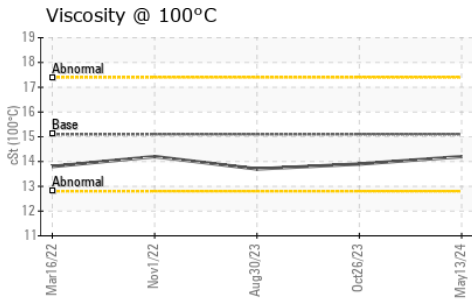
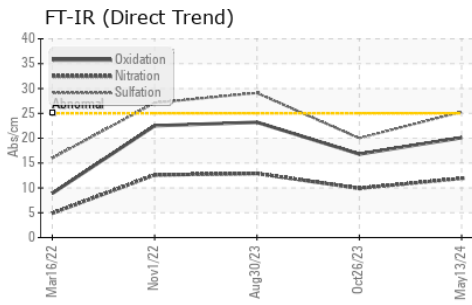
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	2	3	5
Potassium	ppm	ASTM D5185(m)	>20	<1	0	2
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	11.9	9.9	12.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.3	20.0	29.1
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	6	12
Boron	ppm	ASTM D5185(m)	50	6	17	5
Barium	ppm	ASTM D5185(m)	5	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	53	53	57
Manganese	ppm	ASTM D5185(m)	0	<1	0	1
Magnesium	ppm	ASTM D5185(m)	560	595	559	623
Calcium	ppm	ASTM D5185(m)	1510	1620	1494	1647
Phosphorus	ppm	ASTM D5185(m)	780	690	705	768
Zinc	ppm	ASTM D5185(m)	870	921	887	961
Sulfur	ppm	ASTM D5185(m)	2040	1988	1978	2023
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.1	16.8	23.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.2	13.9	13.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0117136
Lab Number : 02635246
Unique Number : 5776399
Test Package : MOB 1

GFL Environmental - 209 - Hamilton
 560 Seaman Street
 Stoney Creek, ON
 CA L8E 3X7
 Contact: Fred Carleton
 fred.carleton@gflenv.com
 T: (289)925-6693
 F: (905)664-9008

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.