



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
833062
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (24 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0094408	GFL0118913	GFL0094404
Sample Date		Client Info		12 Jun 2024	07 May 2024	17 Apr 2024
Machine Age	hrs	Client Info		2030	1200	1200
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	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	6	7	41
Chromium	ppm	ASTM D5185(m)	>4	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	1	1	4
Lead	ppm	ASTM D5185(m)	>30	0	0	2
Copper	ppm	ASTM D5185(m)	>35	1	2	13
Tin	ppm	ASTM D5185(m)	>4	0	0	1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

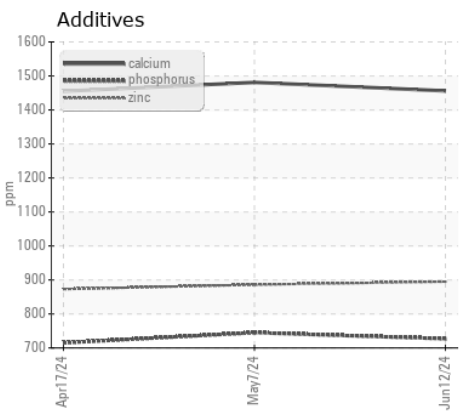
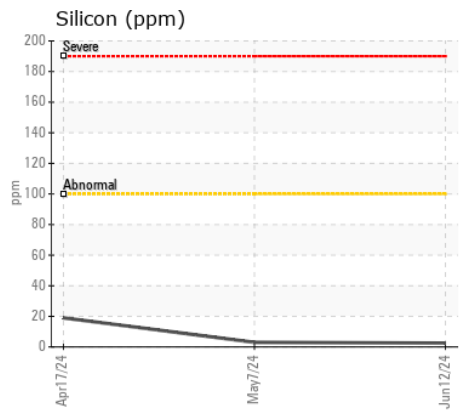
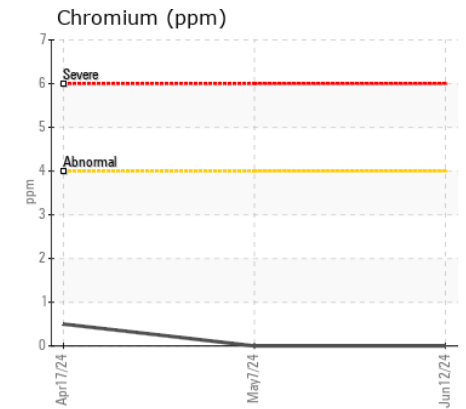
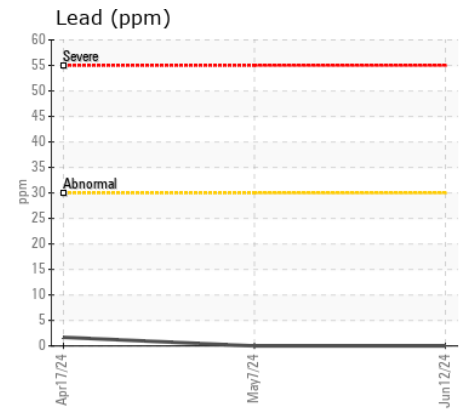
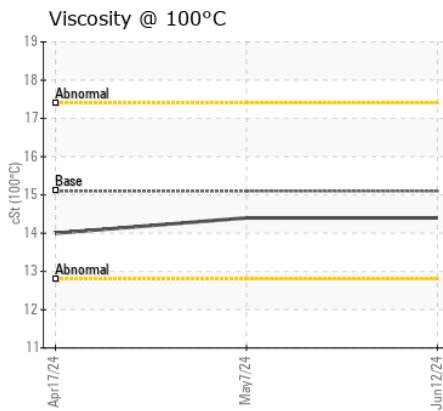
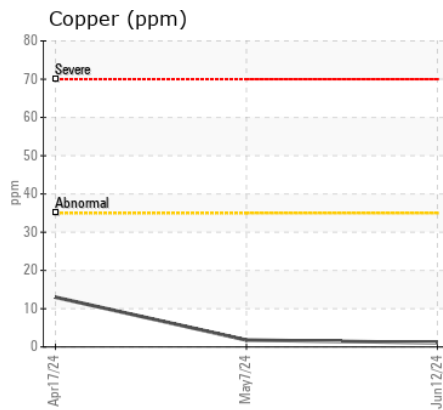
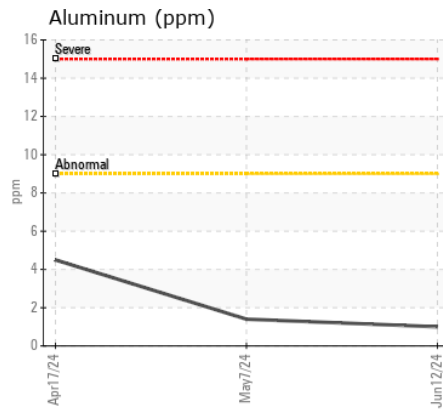
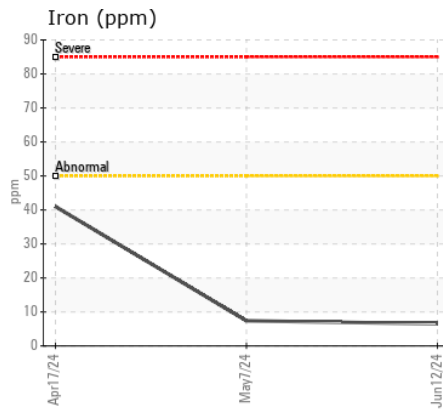
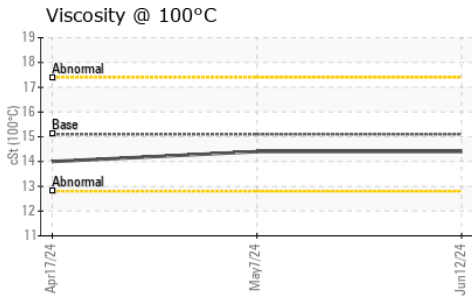
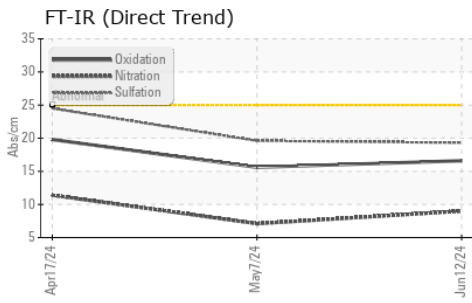
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	2	3	19
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	9.0	7.1	11.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3	19.6	24.5
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
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)		2	2	4
Boron	ppm	ASTM D5185(m)	50	22	34	10
Barium	ppm	ASTM D5185(m)	5	0	<1	2
Molybdenum	ppm	ASTM D5185(m)	50	50	53	92
Manganese	ppm	ASTM D5185(m)	0	<1	1	9
Magnesium	ppm	ASTM D5185(m)	560	565	578	681
Calcium	ppm	ASTM D5185(m)	1510	1456	1481	1455
Phosphorus	ppm	ASTM D5185(m)	780	727	745	715
Zinc	ppm	ASTM D5185(m)	870	895	886	873
Sulfur	ppm	ASTM D5185(m)	2040	1945	2051	2091
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.6	15.6	19.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.4	14.4	14.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0094408
Lab Number : 02641673
Unique Number : 5799212
Test Package : MOB 1 (Additional Tests: Visual)

GFL Environmental - 222 - Sandhill
 SANDHILL DISPOSAL & RECYCLING DIVIS, 19 COMMERCE ROAD
 ORANGEVILLE, ON
 CA L9W 3X5
 Contact: GLENN COOK
 gcook@gflenv.com
 T: (519)940-4167
 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.