



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
901002
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (23 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0094416	GFL0094389	GFL0063942
Sample Date		Client Info		02 Apr 2024	05 Oct 2023	25 Apr 2023
Machine Age	hrs	Client Info		18589	16336	16336
Oil Age	hrs	Client Info		18589	16336	16336
Filter Age	hrs	Client Info		18589	16336	16336
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	15	33	25
Chromium	ppm	ASTM D5185(m)	>4	<1	▲ 4	3
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>9	1	2	2
Lead	ppm	ASTM D5185(m)	>30	<1	7	6
Copper	ppm	ASTM D5185(m)	>35	<1	2	1
Tin	ppm	ASTM D5185(m)	>4	0	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

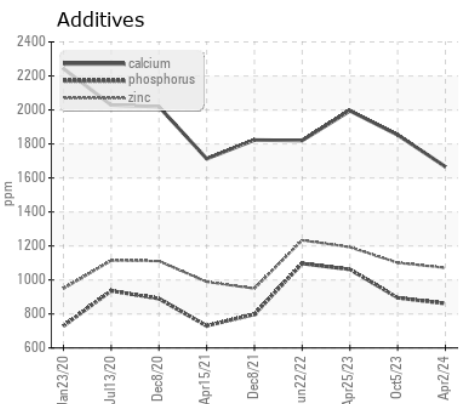
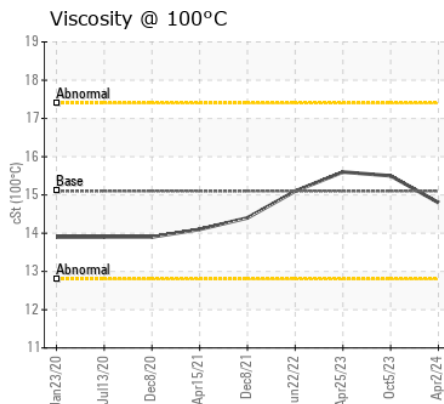
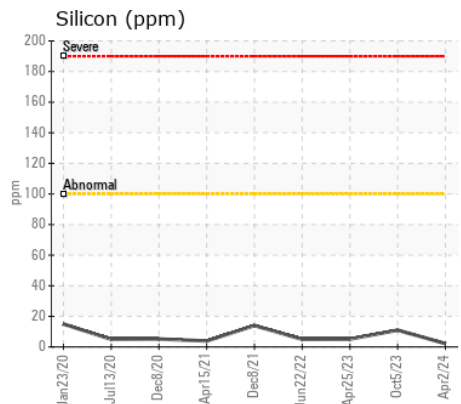
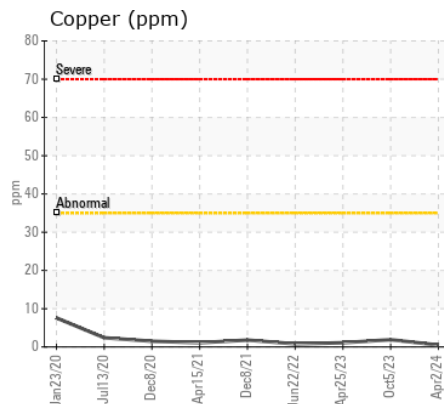
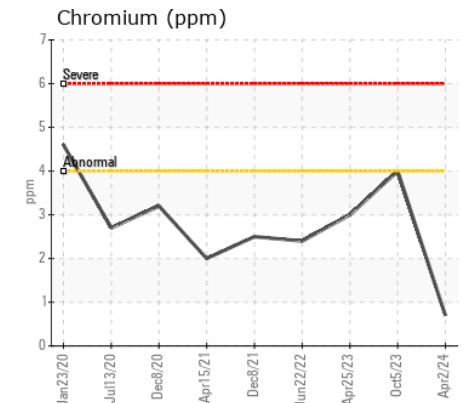
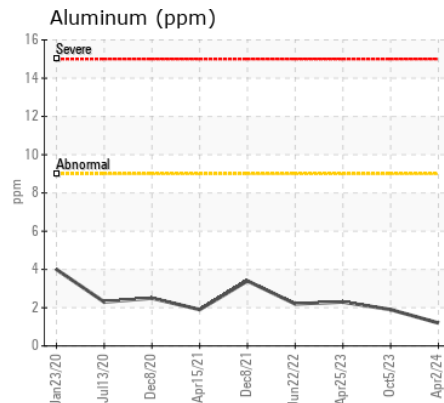
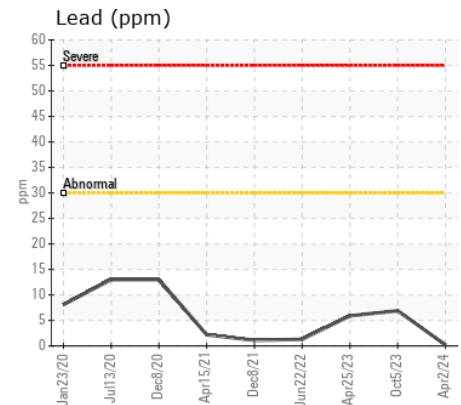
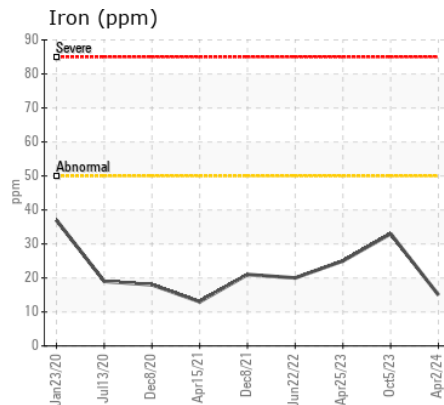
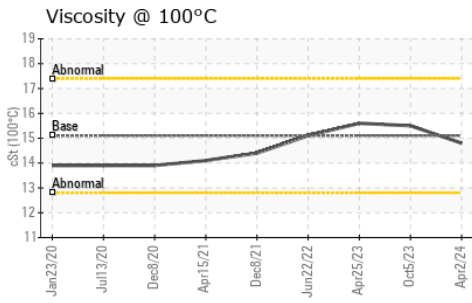
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	2	11	5
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	10.9	11.4	12.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.1	25.7	28.1
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)		3	6	7
Boron	ppm	ASTM D5185(m)	50	17	19	19
Barium	ppm	ASTM D5185(m)	5	0	2	0
Molybdenum	ppm	ASTM D5185(m)	50	61	67	68
Manganese	ppm	ASTM D5185(m)	0	0	<1	1
Magnesium	ppm	ASTM D5185(m)	560	721	695	746
Calcium	ppm	ASTM D5185(m)	1510	1666	1853	1995
Phosphorus	ppm	ASTM D5185(m)	780	861	895	1062
Zinc	ppm	ASTM D5185(m)	870	1071	1101	1193
Sulfur	ppm	ASTM D5185(m)	2040	2127	2112	2360
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.3	21.8	23.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.8	15.5	15.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0094416
Lab Number : 02626415
Unique Number : 5759547
Test Package : MOB 1
Received : 03 Apr 2024
Tested : 03 Apr 2024
Diagnosed : 03 Apr 2024 - Wes Davis

GFL Environmental - 222 - Sandhill
 SANDHILL DISPOSAL & RECYCLING DIVIS, 19 COMMERCE ROAD
 ORANGEVILLE, ON
 CA L9W 3X5
 Contact: GLENN COOK
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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.