



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

(YA115770)

Machine Id

10418C

Component

Natural Gas Engine

Fluid

PETRO CANADA DURON GEO LD 15W40 (30 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0082427	GFL0082473	GFL0050727
Sample Date		Client Info		16 Apr 2024	26 Sep 2023	28 Mar 2023
Machine Age	hrs	Client Info		0	8498	7286
Oil Age	hrs	Client Info		0	1232	647
Filter Age	hrs	Client Info		0	1232	647
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	6	17	14
Chromium	ppm	ASTM D5185m	>4	<1	2	1
Nickel	ppm	ASTM D5185m	>2	<1	1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	2	2	2
Lead	ppm	ASTM D5185m	>30	1	10	3
Copper	ppm	ASTM D5185m	>35	0	6	6
Tin	ppm	ASTM D5185m	>4	<1	1	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

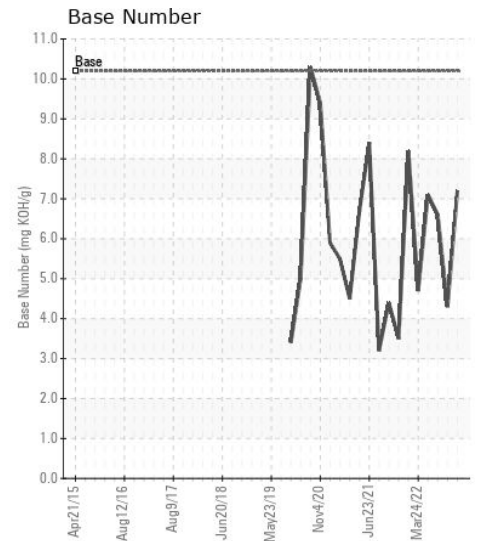
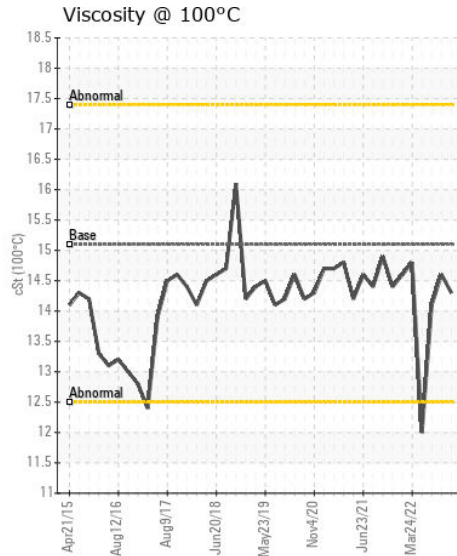
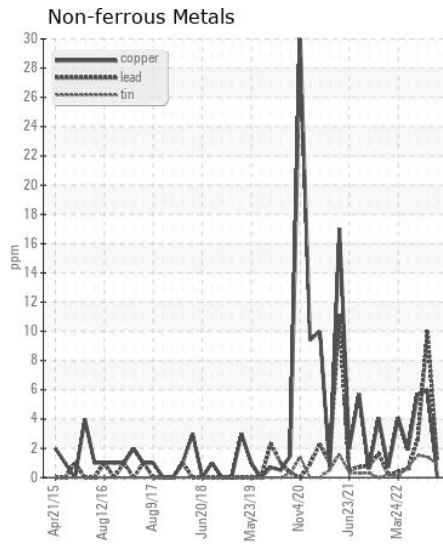
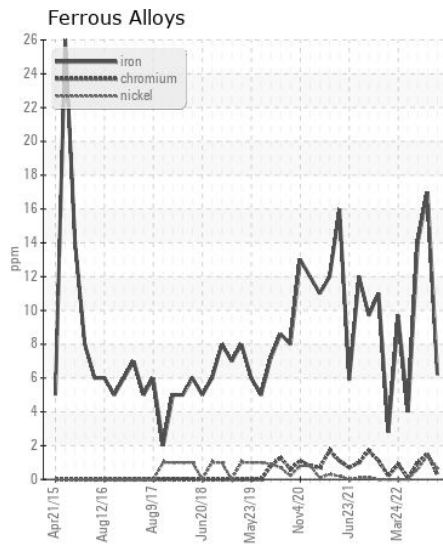
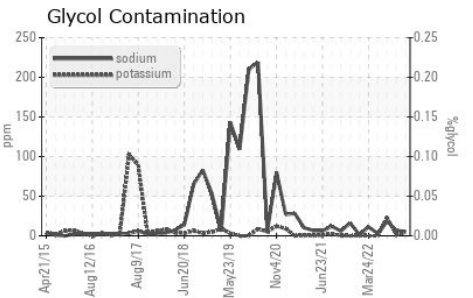
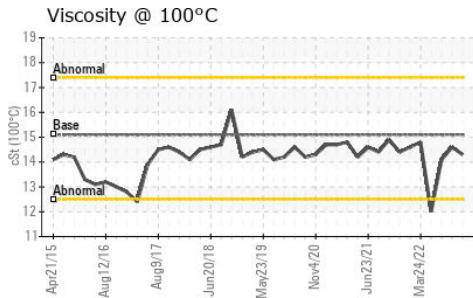
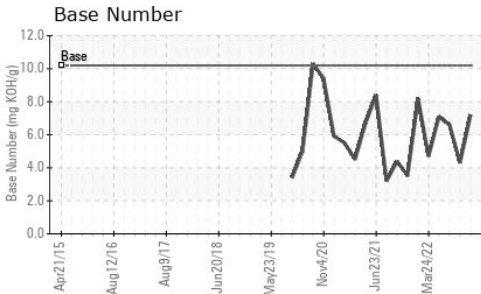
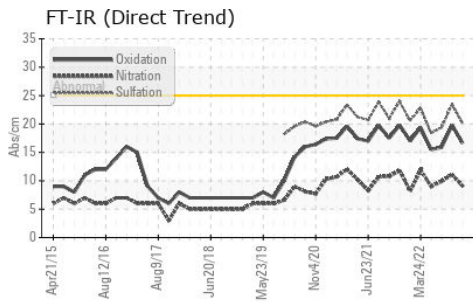
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	4	9	6
Potassium	ppm	ASTM D5185m	>20	4	2	23
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.1	11.1	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	23.5	19.4
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	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 D5185m		5	7	18
Boron	ppm	ASTM D5185m	50	25	9	18
Barium	ppm	ASTM D5185m	5	<1	0	1
Molybdenum	ppm	ASTM D5185m	50	52	58	51
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	560	646	582	495
Calcium	ppm	ASTM D5185m	1510	1658	1687	1534
Phosphorus	ppm	ASTM D5185m	780	898	778	710
Zinc	ppm	ASTM D5185m	870	1040	1053	925
Sulfur	ppm	ASTM D5185m	2040	2998	2629	2493
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	19.8	15.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.2	4.3	6.6
Visc @ 100°C	cSt	ASTM D445	15.1	14.3	14.6	14.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0082427
Lab Number : 06151442
Unique Number : 10981520
Test Package : FLEET (Additional Tests: Glycol)

Received : 17 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 23 Apr 2024 - Jonathan Hester

GFL Environmental - 007 - Brunswick
 2809 Galloway Road
 Bolivia, NC
 US 28422
 Contact: DONALD CRAVEN
 dcraven@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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