



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

(YA134210)

Machine Id

10351C

Component

Natural Gas Engine

Fluid

PETRO CANADA DURON GEO LD 15W40 (29 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112900	GFL0098103	GFL0083329
Sample Date		Client Info		24 Apr 2024	01 Nov 2023	22 May 2023
Machine Age	hrs	Client Info		9199	9199	9199
Oil Age	hrs	Client Info		150	300	598
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	9	17	24
Chromium	ppm	ASTM D5185m	>4	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	<1	0
Lead	ppm	ASTM D5185m	>30	0	4	<1
Copper	ppm	ASTM D5185m	>35	5	5	2
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

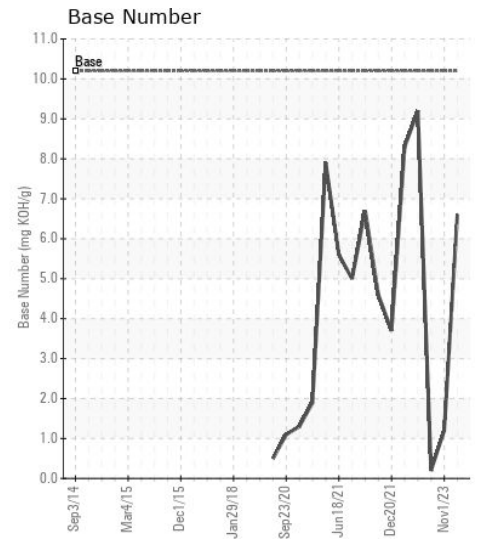
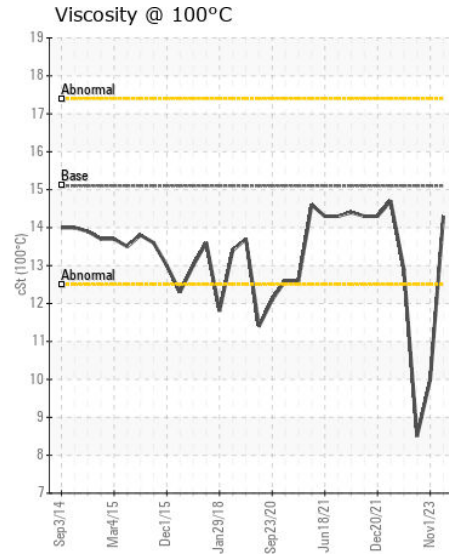
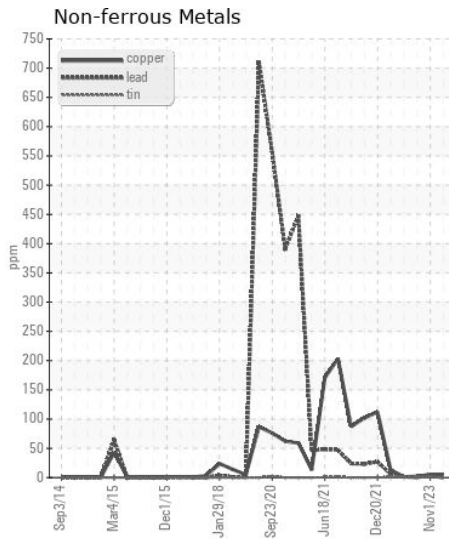
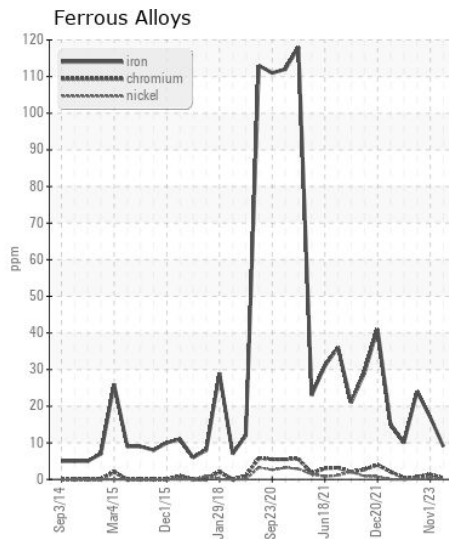
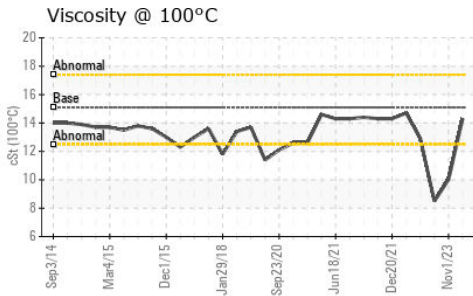
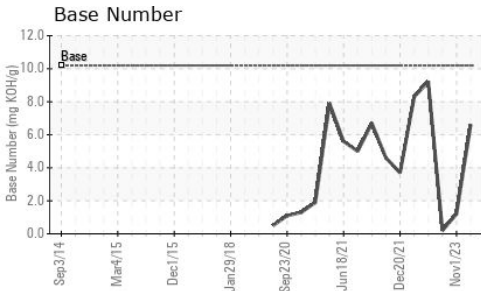
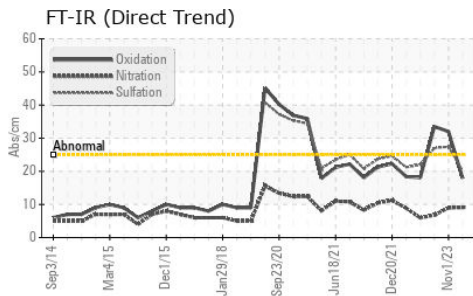
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	3	5	7
Potassium	ppm	ASTM D5185m	>20	<1	5	3
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	9.1	9.0	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	27.4	27.0
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	2	4
Boron	ppm	ASTM D5185m	50	23	9	31
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	50	29	14
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	597	290	151
Calcium	ppm	ASTM D5185m	1510	1569	920	518
Phosphorus	ppm	ASTM D5185m	780	783	441	374
Zinc	ppm	ASTM D5185m	870	952	490	260
Sulfur	ppm	ASTM D5185m	2040	2658	2242	1872
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	32.0	33.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.6	1.2	0.2
Visc @ 100°C	cSt	ASTM D445	15.1	14.3	10.0	8.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0112900
Lab Number : 06158937
Unique Number : 10994360
Test Package : FLEET

GFL Environmental - 017 - Durham
 148 Stone Park Court
 Durham, NC
 US 27703
 Contact:

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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