



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(UA43402)
Machine Id
3621C
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (7 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112136	GFL0052204	GFL0060125
Sample Date		Client Info		08 Feb 2024	04 Apr 2023	22 Dec 2022
Machine Age	hrs	Client Info		23021	23021	20554
Oil Age	hrs	Client Info		23021	23021	22201
Filter Age	hrs	Client Info		0	600	635
Oil Changed		Client Info		N/A	Changed	Not Chngd
Filter Changed		Client Info		N/A	N/A	Not Chngd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	11	5	10
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	<1	1
Lead	ppm	ASTM D5185m	>30	1	0	<1
Copper	ppm	ASTM D5185m	>35	1	0	<1
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

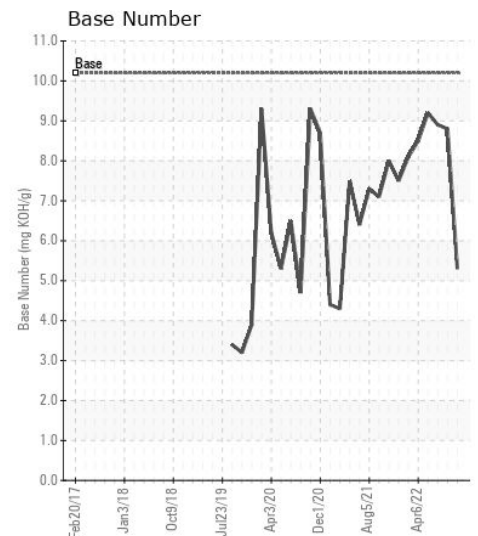
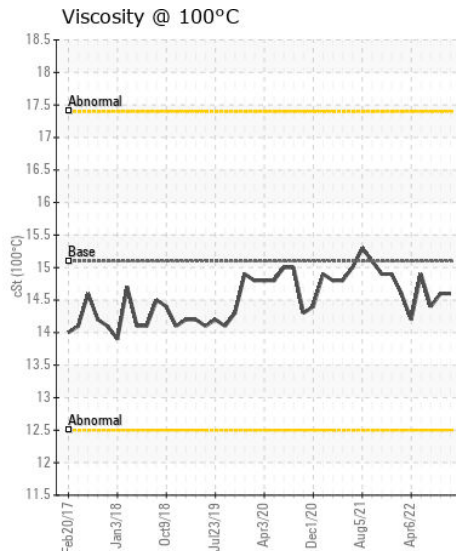
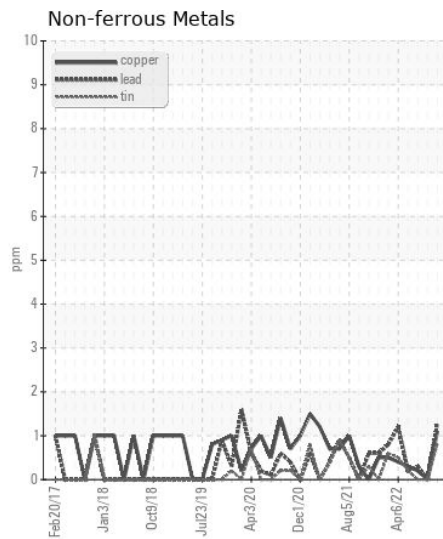
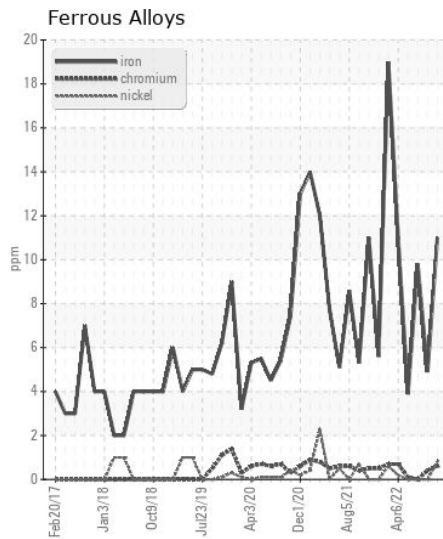
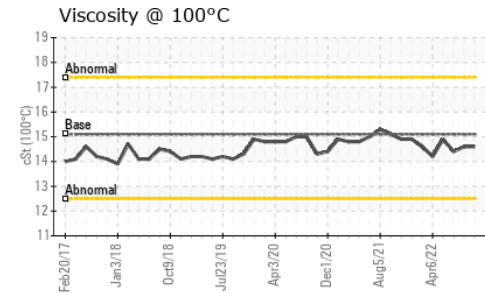
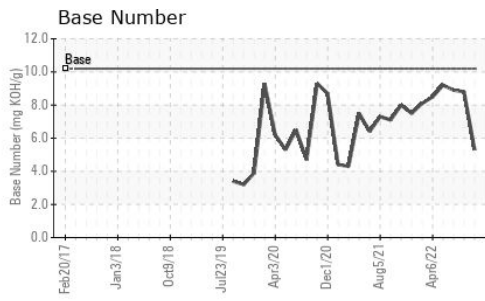
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	5	12	10
Potassium	ppm	ASTM D5185m	>20	1	<1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.2	6.2	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	19.1	20.9
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		1	7	1
Boron	ppm	ASTM D5185m	50	15	75	36
Barium	ppm	ASTM D5185m	5	13	0	0
Molybdenum	ppm	ASTM D5185m	50	40	74	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	412	852	548
Calcium	ppm	ASTM D5185m	1510	1639	2345	1556
Phosphorus	ppm	ASTM D5185m	780	809	1153	762
Zinc	ppm	ASTM D5185m	870	946	1399	919
Sulfur	ppm	ASTM D5185m	2040	2986	3750	3096
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	15.3	17.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	5.3	8.8	8.9
Visc @ 100°C	cSt	ASTM D445	15.1	14.6	14.6	14.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0112136
Lab Number : 06085685
Unique Number : 10873130
Test Package : FLEET

Received : 12 Feb 2024
Tested : 12 Feb 2024
Diagnosed : 12 Feb 2024 - Wes Davis

GFL Environmental - 045 - Tidewater
 3821 Cook Blvd.
 Chesapeake, VA
 US 23323

Contact: ELVIN RODRIGUEZ
 elvinrodriguez@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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