



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
844000
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0113952	GFL0086737	GFL0060633
Sample Date		Client Info		16 Apr 2024	11 Oct 2023	24 Oct 2022
Machine Age	hrs	Client Info		1550	542	2849
Oil Age	hrs	Client Info		1008	0	2849
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	55	47	15
Chromium	ppm	ASTM D5185m	>4	5	6	2
Nickel	ppm	ASTM D5185m	>2	0	2	0
Titanium	ppm	ASTM D5185m		<1	1	0
Silver	ppm	ASTM D5185m	>3	0	0	2
Aluminum	ppm	ASTM D5185m	>9	4	4	2
Lead	ppm	ASTM D5185m	>30	4	15	<1
Copper	ppm	ASTM D5185m	>35	3	1	<1
Tin	ppm	ASTM D5185m	>4	<1	2	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

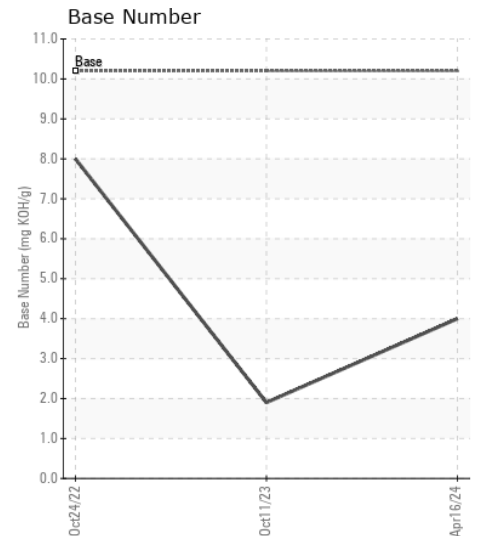
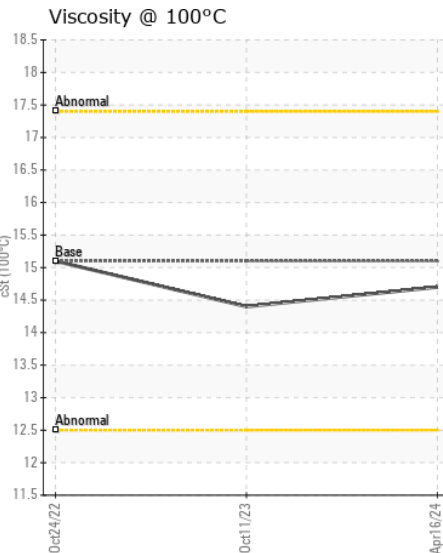
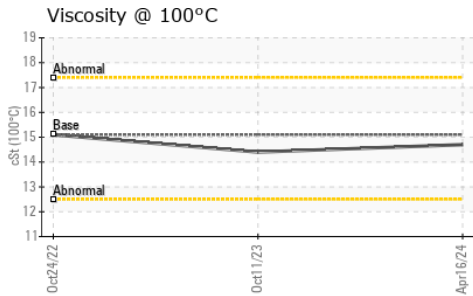
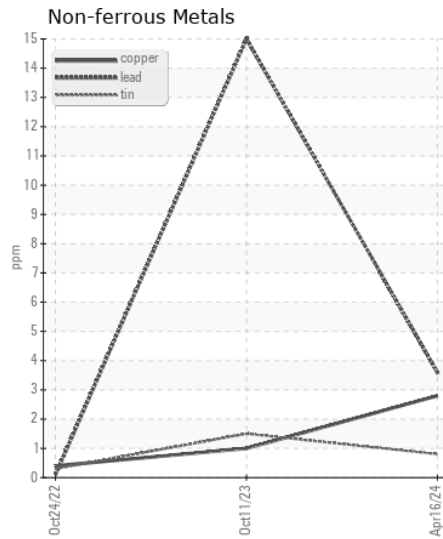
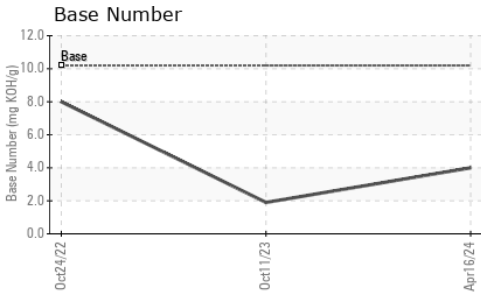
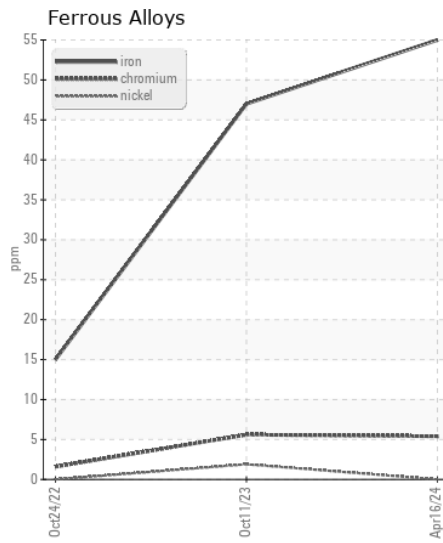
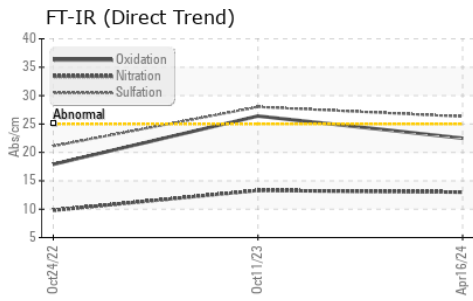
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	13	12	5
Potassium	ppm	ASTM D5185m	>20	2	6	2
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	13.0	13.3	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.3	28.0	21.1
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		31	16	4
Boron	ppm	ASTM D5185m	50	13	3	14
Barium	ppm	ASTM D5185m	5	2	0	0
Molybdenum	ppm	ASTM D5185m	50	60	51	51
Manganese	ppm	ASTM D5185m	0	2	2	<1
Magnesium	ppm	ASTM D5185m	560	640	569	552
Calcium	ppm	ASTM D5185m	1510	1755	1529	1464
Phosphorus	ppm	ASTM D5185m	780	870	654	764
Zinc	ppm	ASTM D5185m	870	1043	914	956
Sulfur	ppm	ASTM D5185m	2040	2881	2061	2976
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.5	26.4	17.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	4.0	▲ 1.9	8
Visc @ 100°C	cSt	ASTM D445	15.1	14.7	14.4	15.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0113952
Lab Number : 06155746
Unique Number : 10991169
Test Package : FLEET

Received : 22 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 24 Apr 2024 - Don Baldrige

GFL Environmental - 932 - Muskego HC
 W144 S6400 College Ct.
 Muskego, WI
 US 53150

Contact: Brian Schломann
 brian.schlomann@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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F: