



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
934057

Component
Natural Gas Engine

Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Oil sample only)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0114474	GFL0114481	GFL0093239
Sample Date		Client Info		12 Mar 2024	04 Mar 2024	13 Sep 2023
Machine Age	mls	Client Info		27646	1772	584
Oil Age	mls	Client Info		0	0	584
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	7	23	46
Chromium	ppm	ASTM D5185m	>4	<1	2	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	12	19
Lead	ppm	ASTM D5185m	>30	0	1	3
Copper	ppm	ASTM D5185m	>35	<1	2	14
Tin	ppm	ASTM D5185m	>4	0	0	2
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

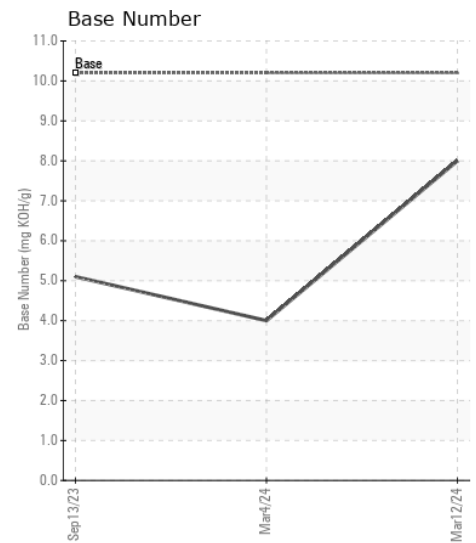
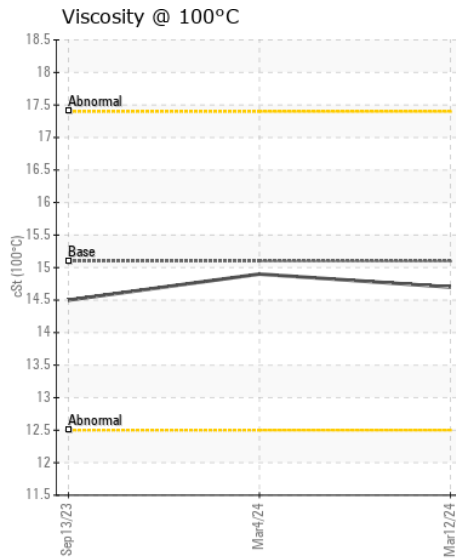
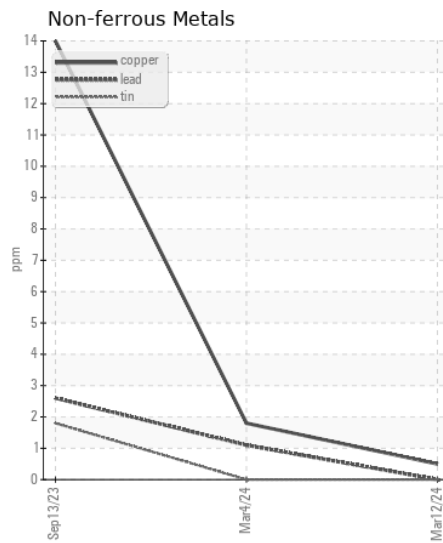
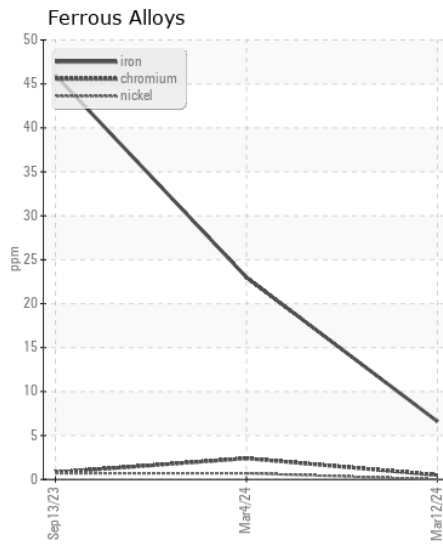
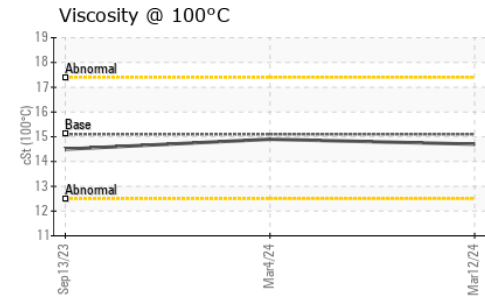
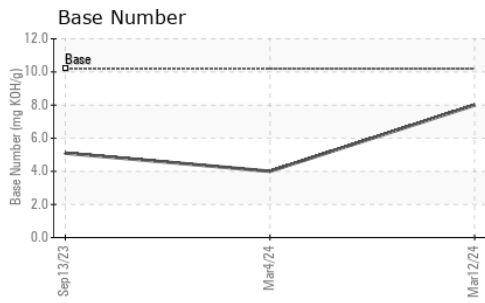
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	4	6	32
Potassium	ppm	ASTM D5185m	>20	4	34	66
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.1	11.3	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	22.2	21.9
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		5	7	6
Boron	ppm	ASTM D5185m	50	29	6	15
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	48	55	60
Manganese	ppm	ASTM D5185m	0	<1	1	14
Magnesium	ppm	ASTM D5185m	560	554	606	825
Calcium	ppm	ASTM D5185m	1510	1548	1695	1380
Phosphorus	ppm	ASTM D5185m	780	752	741	710
Zinc	ppm	ASTM D5185m	870	901	1005	968
Sulfur	ppm	ASTM D5185m	2040	2891	2871	2682
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	18.9	20.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	8.0	4.0	5.1
Visc @ 100°C	cSt	ASTM D445	15.1	14.7	14.9	14.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0114474
Lab Number : 06123008
Unique Number : 10937159
Test Package : FLEET

Received : 19 Mar 2024
Tested : 20 Mar 2024
Diagnosed : 21 Mar 2024 - Don Baldrige

GFL Environmental - 865 - East Mount Hauling
 7213 East Mount Houston Road
 Houston, TX
 US 77050

Contact: Saul Castillo
 saul.castillo@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)

T:
 F: