



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(TB7412) {UNASSIGNED}
Machine Id
7983
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		GFL0123763	GFL0113003	GFL0098429
Sample Date		Client Info		16 May 2024	11 Mar 2024	04 Dec 2023
Machine Age	hrs	Client Info		2761	2322	1742
Oil Age	hrs	Client Info		2322	2322	1742
Filter Age	hrs	Client Info		2761	0	1742
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	13	18	18
Chromium	ppm	ASTM D5185m	>4	2	<1	1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	1	0	0
Aluminum	ppm	ASTM D5185m	>9	2	<1	2
Lead	ppm	ASTM D5185m	>30	<1	0	<1
Copper	ppm	ASTM D5185m	>35	1	0	1
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

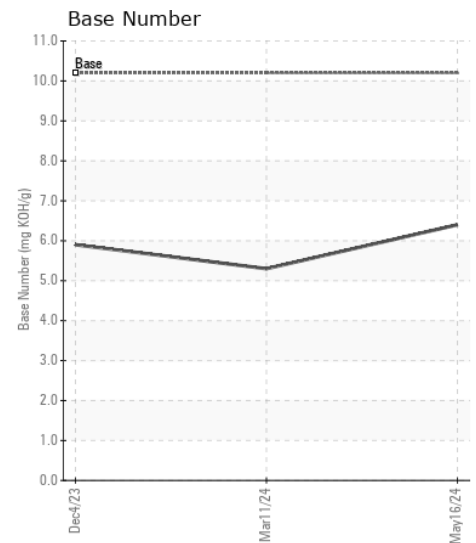
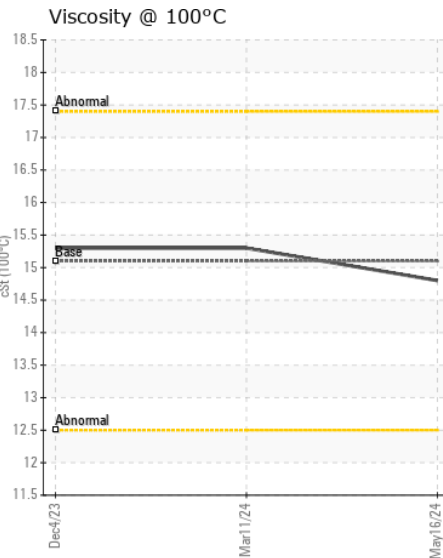
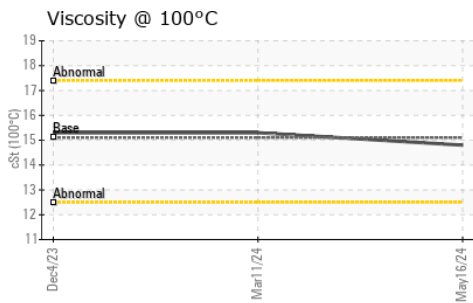
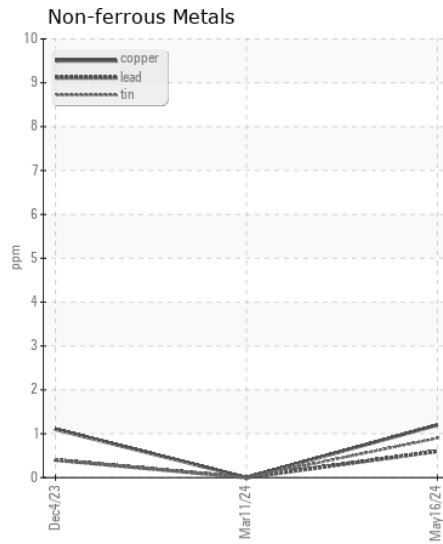
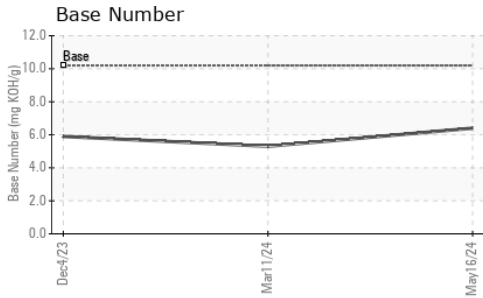
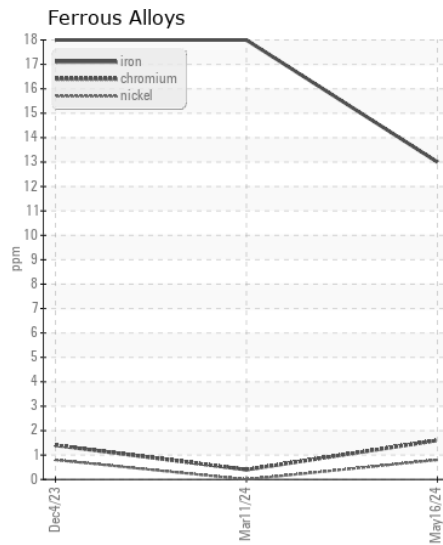
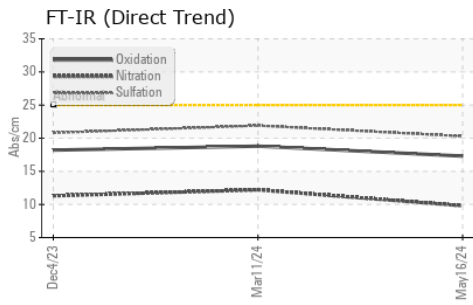
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	5	3	4
Potassium	ppm	ASTM D5185m	>20	3	0	2
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.8	12.2	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	21.9	20.8
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		7	7	5
Boron	ppm	ASTM D5185m	50	21	13	12
Barium	ppm	ASTM D5185m	5	<1	0	12
Molybdenum	ppm	ASTM D5185m	50	56	60	60
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	560	575	629	588
Calcium	ppm	ASTM D5185m	1510	1682	2008	1708
Phosphorus	ppm	ASTM D5185m	780	780	838	753
Zinc	ppm	ASTM D5185m	870	1006	1155	1032
Sulfur	ppm	ASTM D5185m	2040	2576	3131	2644
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	18.8	18.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.4	5.3	5.9
Visc @ 100°C	cSt	ASTM D445	15.1	14.8	15.3	15.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : GFL0123763

Lab Number : 06191935

Unique Number : 11048687

Test Package : FLEET

Received : 28 May 2024

Tested : 29 May 2024

Diagnosed : 30 May 2024 - Don Baldrige

GFL Environmental - 918 - Hartland HC

630 E Industrial Drive

Hartland, WI

US 53029

Contact: David McCall

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F:

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)