



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
834007
 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		GFL0092117	GFL0084656	---
Sample Date		Client Info		10 Jan 2024	02 Nov 2023	---
Machine Age	hrs	Client Info		1795	0	---
Oil Age	hrs	Client Info		600	0	---
Filter Age	hrs	Client Info		600	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>50	14	17	---
Chromium	ppm	ASTM D5185m	>4	<1	<1	---
Nickel	ppm	ASTM D5185m	>2	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>9	6	9	---
Lead	ppm	ASTM D5185m	>30	1	<1	---
Copper	ppm	ASTM D5185m	>35	2	3	---
Tin	ppm	ASTM D5185m	>4	1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

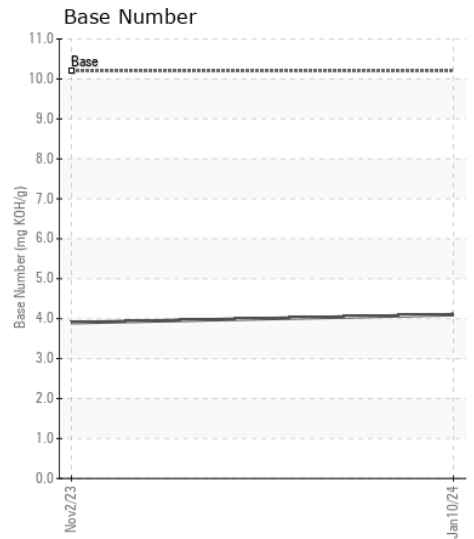
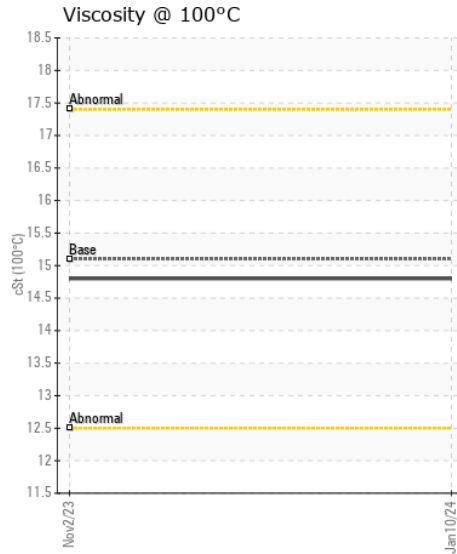
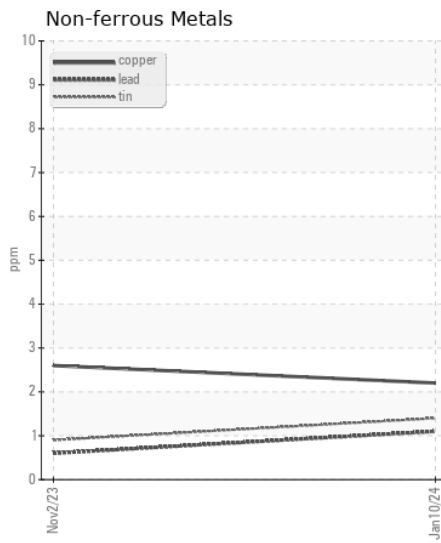
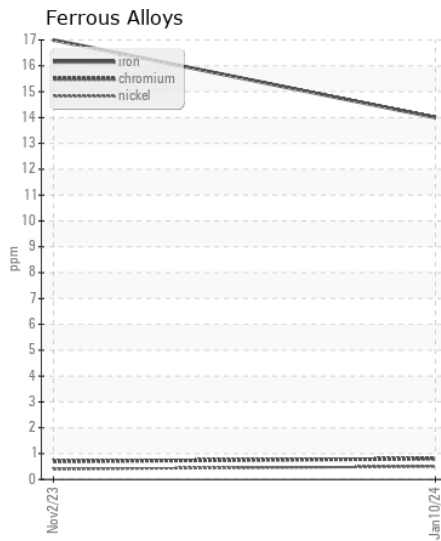
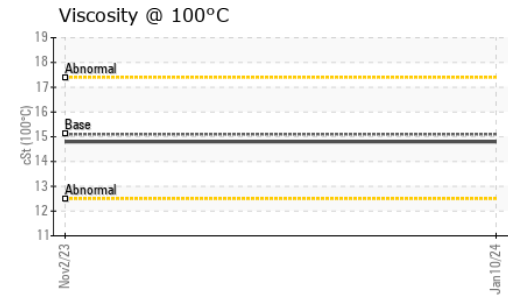
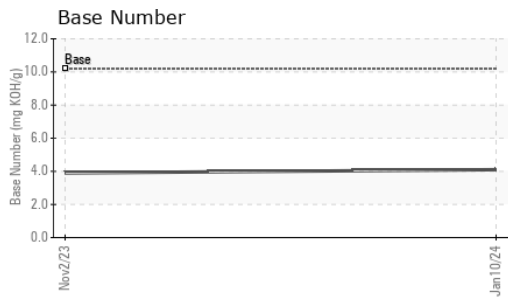
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	5	8	---
Potassium	ppm	ASTM D5185m	>20	22	37	---
Water		WC Method	>0.1	NEG	NEG	---
Soot %	%	*ASTM D7844		0	0	---
Nitration	Abs/cm	*ASTM D7624	>20	10.9	10.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	22.9	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	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		8	6	---
Boron	ppm	ASTM D5185m	50	9	8	---
Barium	ppm	ASTM D5185m	5	0	0	---
Molybdenum	ppm	ASTM D5185m	50	52	55	---
Manganese	ppm	ASTM D5185m	0	<1	2	---
Magnesium	ppm	ASTM D5185m	560	526	682	---
Calcium	ppm	ASTM D5185m	1510	1525	1562	---
Phosphorus	ppm	ASTM D5185m	780	743	724	---
Zinc	ppm	ASTM D5185m	870	942	1080	---
Sulfur	ppm	ASTM D5185m	2040	2336	2629	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	19.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	4.1	3.9	---
Visc @ 100°C	cSt	ASTM D445	15.1	14.8	14.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0092117 **Recieved** : 16 Jan 2024
Lab Number : 06060576 **Diagnosed** : 16 Jan 2024
Unique Number : 10831958 **Diagnostician** : Wes Davis
Test Package : FLEET

GFL Environmental - 856 - Houston South
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 US 77083
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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)