



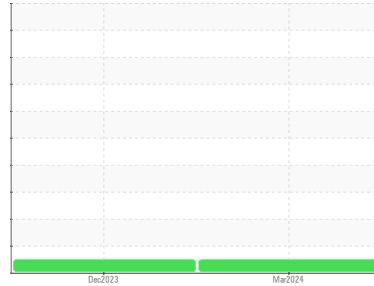
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
(TB7412) {UNASSIGNED}
Machine Id
7983
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0113003	GFL0098429	---
Sample Date	Client Info		11 Mar 2024	04 Dec 2023	---
Machine Age	hrs	Client Info	2322	1742	---
Oil Age	hrs	Client Info	2322	1742	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	18	18	---
Chromium	ppm	ASTM D5185m >4	<1	1	---
Nickel	ppm	ASTM D5185m >2	0	<1	---
Titanium	ppm	ASTM D5185m	0	<1	---
Silver	ppm	ASTM D5185m >3	0	0	---
Aluminum	ppm	ASTM D5185m >9	<1	2	---
Lead	ppm	ASTM D5185m >30	0	<1	---
Copper	ppm	ASTM D5185m >35	0	1	---
Tin	ppm	ASTM D5185m >4	0	<1	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	13	12	---
Barium	ppm	ASTM D5185m 5	0	12	---
Molybdenum	ppm	ASTM D5185m 50	60	60	---
Manganese	ppm	ASTM D5185m 0	0	<1	---
Magnesium	ppm	ASTM D5185m 560	629	588	---
Calcium	ppm	ASTM D5185m 1510	2008	1708	---
Phosphorus	ppm	ASTM D5185m 780	838	753	---
Zinc	ppm	ASTM D5185m 870	1155	1032	---
Sulfur	ppm	ASTM D5185m 2040	3131	2644	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	3	4	---
Sodium	ppm	ASTM D5185m	7	5	---
Potassium	ppm	ASTM D5185m >20	0	2	---

INFRA-RED

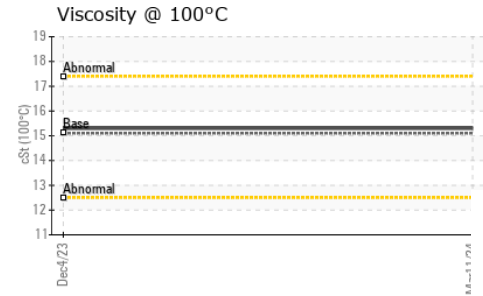
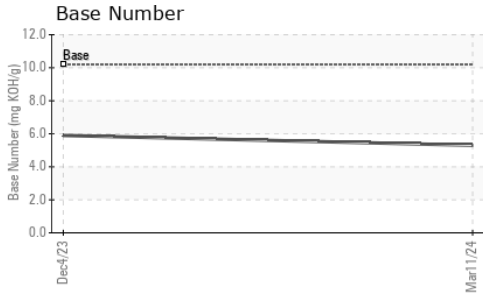
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0.1	---
Nitration	Abs/cm	*ASTM D7624 >20	12.2	11.3	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	21.9	20.8	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.8	18.2	---
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	5.3	5.9	---



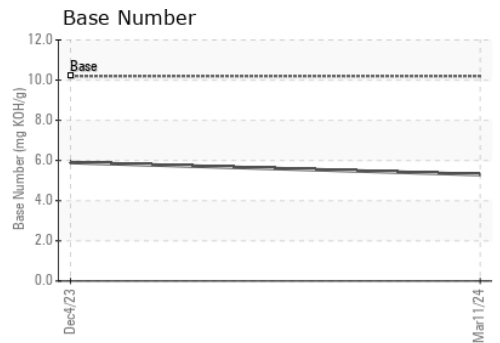
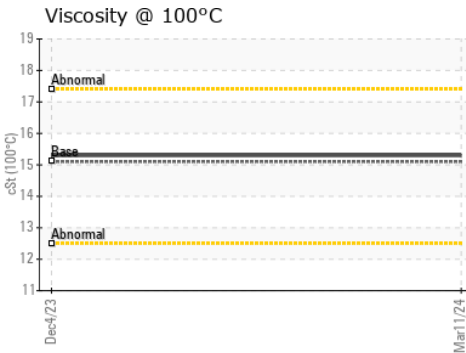
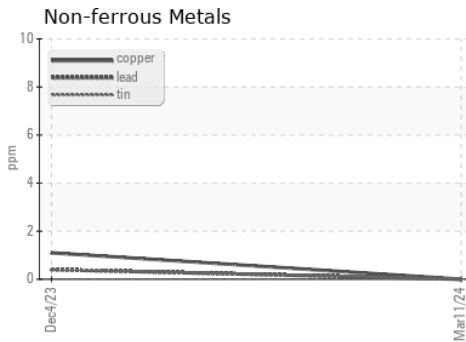
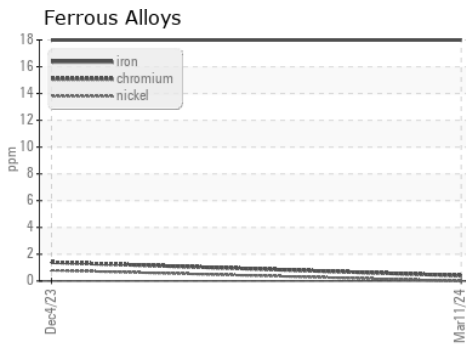
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	15.3	15.3

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : GFL0113003
 Lab Number : **06123341**
 Unique Number : 10937492
 Test Package : FLEET

Received : 20 Mar 2024
 Tested : 21 Mar 2024
 Diagnosed : 21 Mar 2024 - Wes Davis

GFL Environmental - 918 - Hartland HC
 630 E Industrial Drive
 Hartland, WI
 US 53029
 Contact: David McCall
 david.mccall@gflenv.com
 T: (262)369-3069
 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)