



OIL ANALYSIS REPORT

Sample Rating Trend

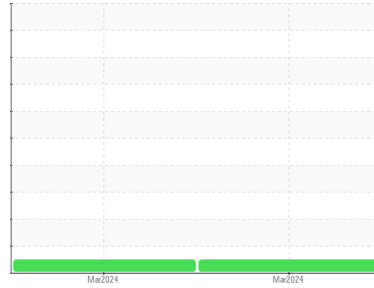
NORMAL



Machine Id
434023

Component
Natural Gas Engine

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



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Oil sample only no oil change or filter)

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		GFL0114425	GFL0114482	---
Sample Date	Client Info		12 Mar 2024	05 Mar 2024	---
Machine Age	mls	Client Info	13503	741	---
Oil Age	mls	Client Info	0	0	---
Oil Changed	Client Info		Not Chngd	Not Chngd	---
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	9	13	---
Chromium	ppm	ASTM D5185m >4	<1	<1	---
Nickel	ppm	ASTM D5185m >2	0	<1	---
Titanium	ppm	ASTM D5185m	0	0	---
Silver	ppm	ASTM D5185m >3	0	0	---
Aluminum	ppm	ASTM D5185m >9	4	3	---
Lead	ppm	ASTM D5185m >30	0	<1	---
Copper	ppm	ASTM D5185m >35	2	4	---
Tin	ppm	ASTM D5185m >4	<1	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	27	25	---
Barium	ppm	ASTM D5185m 5	<1	2	---
Molybdenum	ppm	ASTM D5185m 50	44	42	---
Manganese	ppm	ASTM D5185m 0	2	5	---
Magnesium	ppm	ASTM D5185m 560	540	715	---
Calcium	ppm	ASTM D5185m 1510	1428	1432	---
Phosphorus	ppm	ASTM D5185m 780	733	746	---
Zinc	ppm	ASTM D5185m 870	877	921	---
Sulfur	ppm	ASTM D5185m 2040	2617	2612	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	7	20	---
Sodium	ppm	ASTM D5185m	4	4	---
Potassium	ppm	ASTM D5185m >20	12	13	---

INFRA-RED

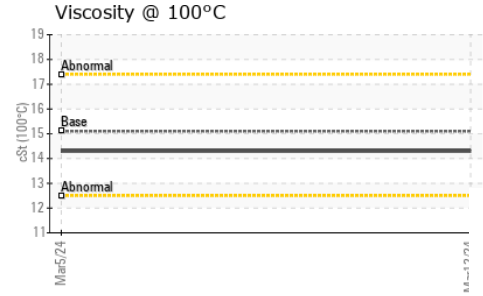
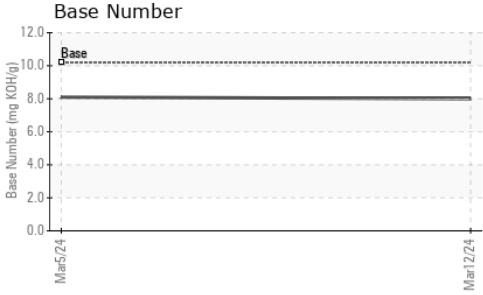
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0	---
Nitration	Abs/cm	*ASTM D7624 >20	7.9	7.8	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	20.4	24.1	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.4	24.3	---
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	8.0	8.1	---



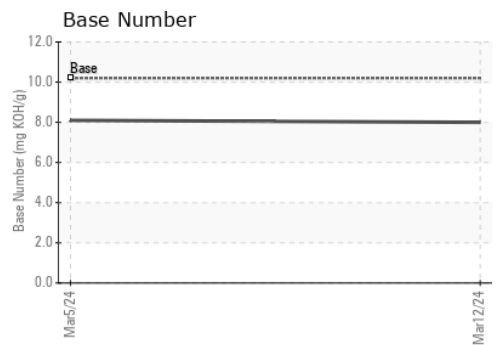
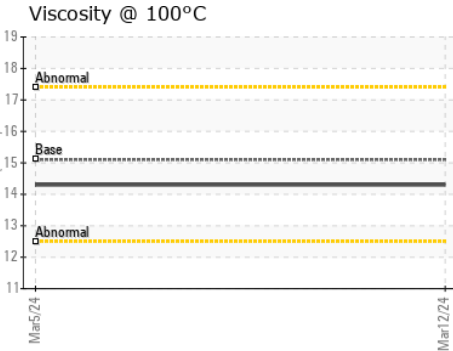
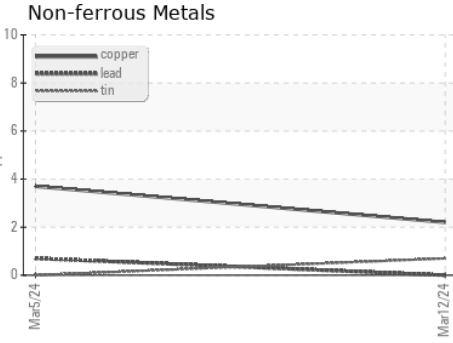
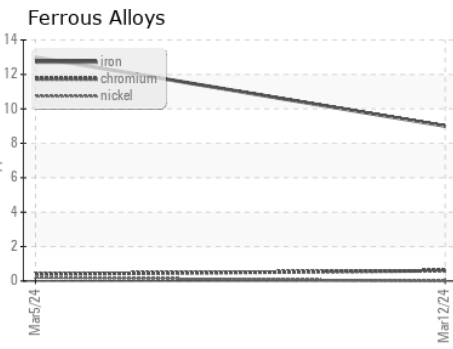
OIL ANALYSIS REPORT



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	14.3	14.3	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0114425 **Received** : 20 Mar 2024
Lab Number : **06124210** **Tested** : 21 Mar 2024
Unique Number : 10938361 **Diagnosed** : 23 Mar 2024 - Don Baldrige
Test Package : FLEET

GFL Environmental - 865 - East Mount Hauling
 7213 East Mount Houston Road
 Houston, TX
 US 77050
 Contact: Saul Castillo
 saul.castillo@gflenv.com

Certificate L2367
 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)