



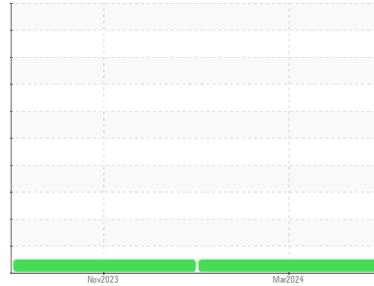
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
425101
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 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		GFL0097821	GFL0097809	---
Sample Date	Client Info		25 Mar 2024	22 Nov 2023	---
Machine Age	hrs	Client Info	15242	15242	---
Oil Age	hrs	Client Info	396	583	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	---
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	37	23	---
Chromium	ppm	ASTM D5185m >20	2	1	---
Nickel	ppm	ASTM D5185m >2	2	1	---
Titanium	ppm	ASTM D5185m >2	<1	<1	---
Silver	ppm	ASTM D5185m >2	0	0	---
Aluminum	ppm	ASTM D5185m >25	3	2	---
Lead	ppm	ASTM D5185m >40	4	<1	---
Copper	ppm	ASTM D5185m >330	4	2	---
Tin	ppm	ASTM D5185m >15	1	<1	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Cadmium	ppm	ASTM D5185m	<1	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	1	2	---
Barium	ppm	ASTM D5185m 0	<1	<1	---
Molybdenum	ppm	ASTM D5185m 60	80	61	---
Manganese	ppm	ASTM D5185m 0	<1	<1	---
Magnesium	ppm	ASTM D5185m 1010	1047	968	---
Calcium	ppm	ASTM D5185m 1070	1198	1090	---
Phosphorus	ppm	ASTM D5185m 1150	1110	969	---
Zinc	ppm	ASTM D5185m 1270	1328	1233	---
Sulfur	ppm	ASTM D5185m 2060	2982	2878	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	9	6	---
Sodium	ppm	ASTM D5185m	64	8	---
Potassium	ppm	ASTM D5185m >20	20	3	---

INFRA-RED

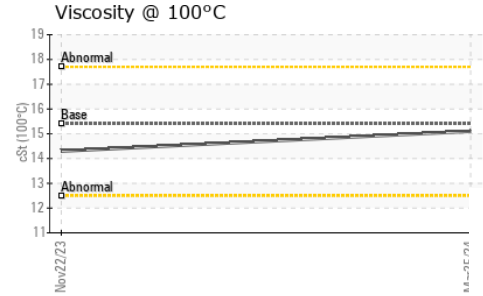
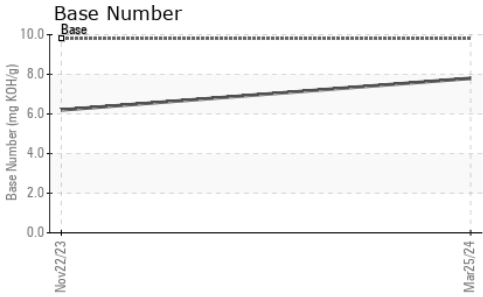
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.5	0.5	---
Nitration	Abs/cm	*ASTM D7624 >20	11.3	10.0	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	24.0	23.1	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	21.1	22.4	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	7.8	6.2	---



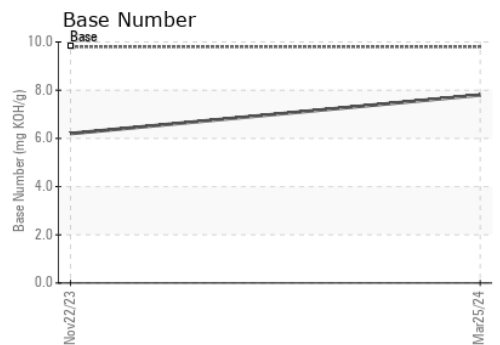
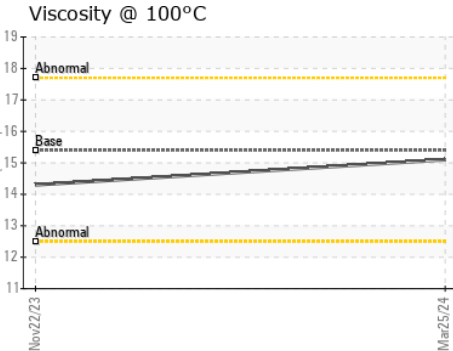
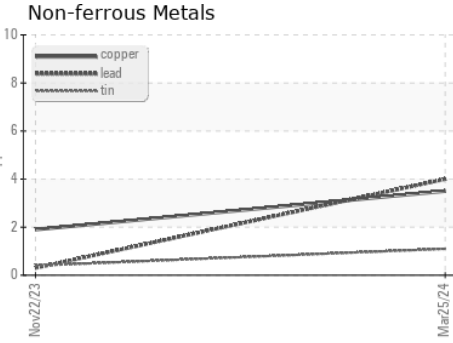
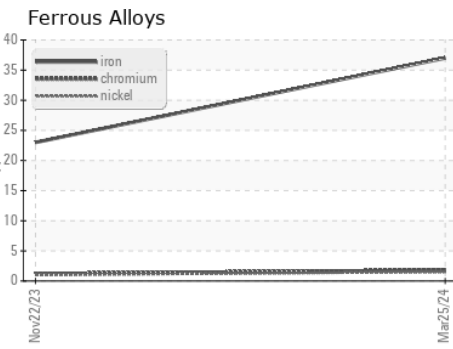
OIL ANALYSIS REPORT



PARAMETER	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	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	15.1	14.3

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0097821 **Received** : 29 Mar 2024
Lab Number : 06133926 **Tested** : 01 Apr 2024
Unique Number : 10953391 **Diagnosed** : 01 Apr 2024 - Wes Davis
Test Package : FLEET

GFL Environmental - 958 - Tri County HC Morton
 1090 W. Jefferson St.
 Morton, IL
 US 61550
 Contact: Bryan Link
 blink@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: