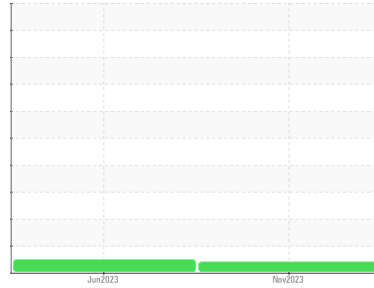




PROBLEM SUMMARY

Sample Rating Trend



VISCOSITY



Area
(30300996)
 Machine Id
FL0112
 Component
Propane Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Viscosity @ 100°C



RECOMMENDATION

No corrective action is recommended at this time.
 Resample at the next service interval to monitor. (Customer Sample Comment: Sample only)

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	NORMAL	---
Visc @ 100°C	cSt	ASTM D445	15.4	▲ 12.1	12.2	---

Customer Id: GFL625
 Sample No.: GFL0094848
 Lab Number: 06002066
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

07 Jun 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

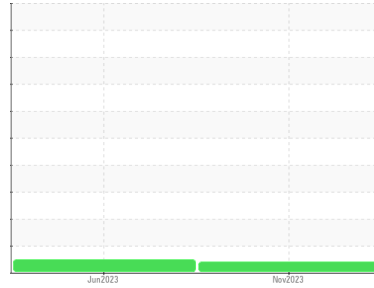
view report





OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area
(30300996)

Machine Id
FL0112

Component
Propane Engine

Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Sample only)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

▲ Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0094848	GFL0077505	---
Sample Date	Client Info		06 Nov 2023	07 Jun 2023	---
Machine Age	hrs	Client Info	7560	7524	---
Oil Age	hrs	Client Info	36	39	---
Oil Changed	Client Info		Not Chngd	Not Chngd	---
Sample Status			ATTENTION	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	93	75	---
Chromium	ppm	ASTM D5185m >25	2	2	---
Nickel	ppm	ASTM D5185m >5	<1	<1	---
Titanium	ppm	ASTM D5185m	0	<1	---
Silver	ppm	ASTM D5185m >5	0	0	---
Aluminum	ppm	ASTM D5185m >20	8	7	---
Lead	ppm	ASTM D5185m >25	19	17	---
Copper	ppm	ASTM D5185m >35	13	11	---
Tin	ppm	ASTM D5185m >8	<1	1	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	6	8	---
Barium	ppm	ASTM D5185m 0	<1	2	---
Molybdenum	ppm	ASTM D5185m 60	55	55	---
Manganese	ppm	ASTM D5185m 0	2	2	---
Magnesium	ppm	ASTM D5185m 1010	603	609	---
Calcium	ppm	ASTM D5185m 1070	1572	1525	---
Phosphorus	ppm	ASTM D5185m 1150	807	904	---
Zinc	ppm	ASTM D5185m 1270	1167	1136	---
Sulfur	ppm	ASTM D5185m 2060	3266	3358	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	13	11	---
Sodium	ppm	ASTM D5185m	9	7	---
Potassium	ppm	ASTM D5185m >20	3	1	---

INFRA-RED

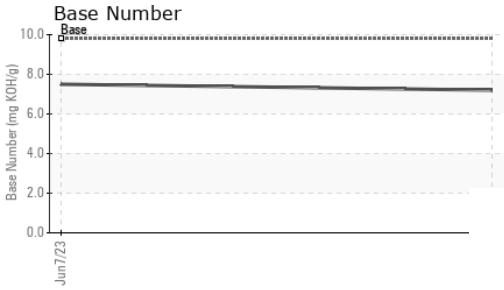
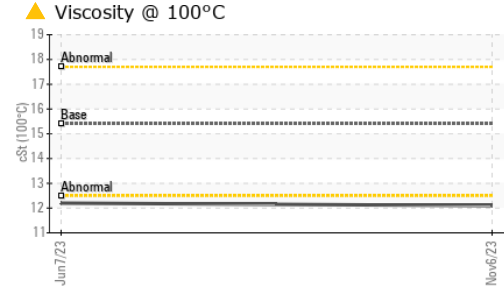
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624 >20	8.3	7.7	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	21.0	20.9	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.4	15.1	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	7.2	7.5	---



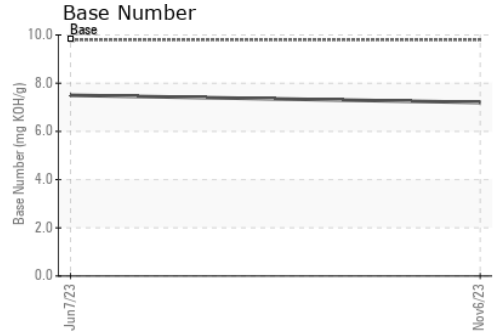
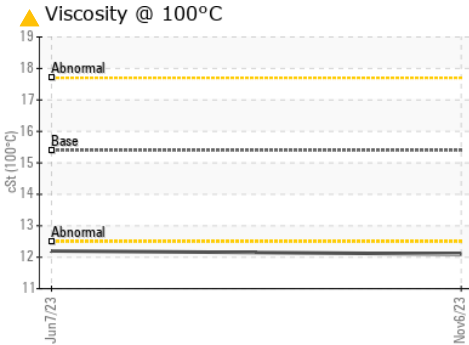
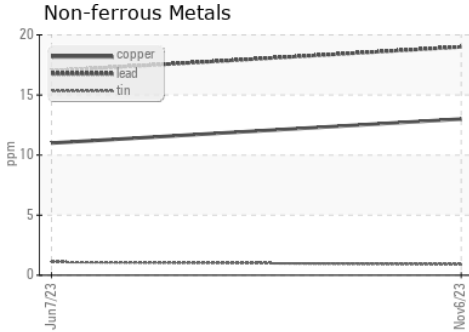
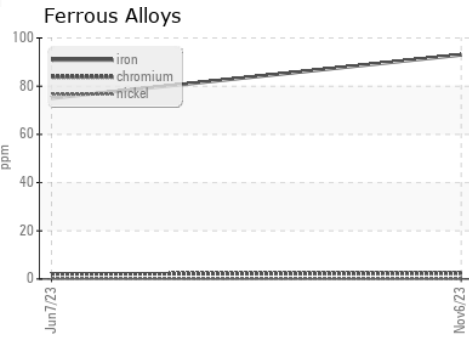
OIL ANALYSIS REPORT



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	15.4	▲ 12.1	12.2	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0094848 **Received** : 08 Nov 2023
Lab Number : 06002066 **Diagnosed** : 09 Nov 2023
Unique Number : 10735828 **Diagnostician** : Jonathan Hester
Test Package : FLEET

GFL Environmental - 625 - Harrison Hauling
 4102 Industrial Pkwy
 Harrison, MI
 US 48625
 Contact: RON TROJANEK
 ront@northern1.com
 T: (231)624-0372
 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)