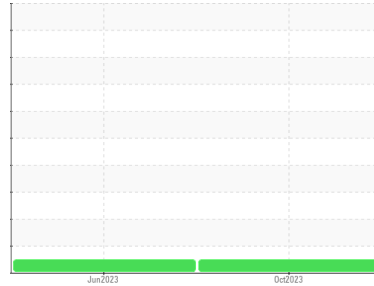




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
834004

Component
Natural Gas Engine

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

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		GFL0084618	GFL0084702	---
Sample Date	Client Info		27 Oct 2023	08 Jun 2023	---
Machine Age	mls	Client Info	11754	1184	---
Oil Age	mls	Client Info	0	0	---
Oil Changed	Client Info		Changed	Not Changd	---
Sample Status			NORMAL	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	14	28	---
Chromium	ppm	ASTM D5185m >4	<1	<1	---
Nickel	ppm	ASTM D5185m >2	<1	<1	---
Titanium	ppm	ASTM D5185m	0	<1	---
Silver	ppm	ASTM D5185m >3	<1	0	---
Aluminum	ppm	ASTM D5185m >9	4	4	---
Lead	ppm	ASTM D5185m >30	1	0	---
Copper	ppm	ASTM D5185m >35	4	13	---
Tin	ppm	ASTM D5185m >4	<1	<1	---
Vanadium	ppm	ASTM D5185m	0	<1	---
Cadmium	ppm	ASTM D5185m	<1	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	6	64	---
Barium	ppm	ASTM D5185m 0	4	0	---
Molybdenum	ppm	ASTM D5185m 60	57	54	---
Manganese	ppm	ASTM D5185m 0	2	11	---
Magnesium	ppm	ASTM D5185m 1010	584	781	---
Calcium	ppm	ASTM D5185m 1070	1477	1328	---
Phosphorus	ppm	ASTM D5185m 1150	714	740	---
Zinc	ppm	ASTM D5185m 1270	941	897	---
Sulfur	ppm	ASTM D5185m 2060	2559	2846	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	10	32	---
Sodium	ppm	ASTM D5185m	4	4	---
Potassium	ppm	ASTM D5185m >20	26	20	---

INFRA-RED

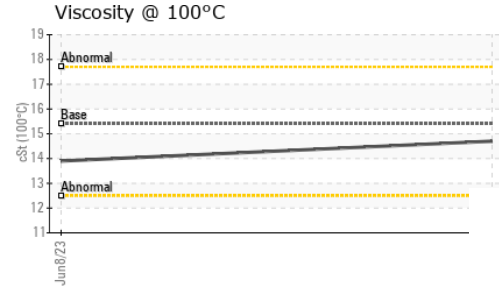
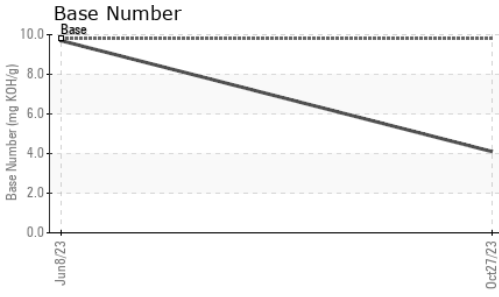
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0.1	---
Nitration	Abs/cm	*ASTM D7624 >20	10.9	7.7	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.1	19.9	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	19.0	16.6	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	4.1	9.7	---



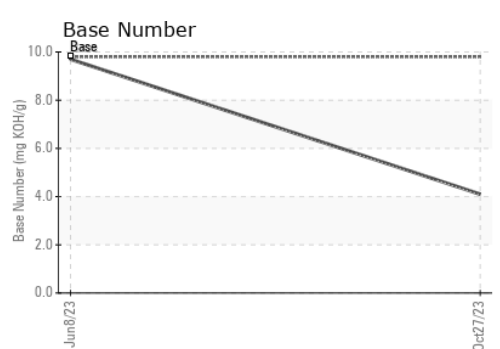
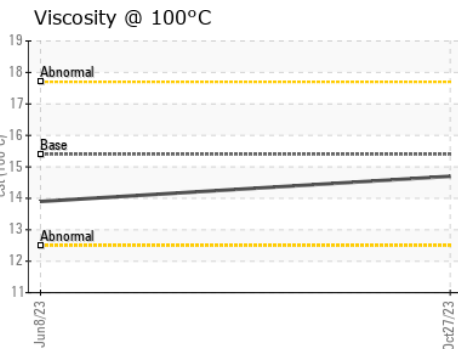
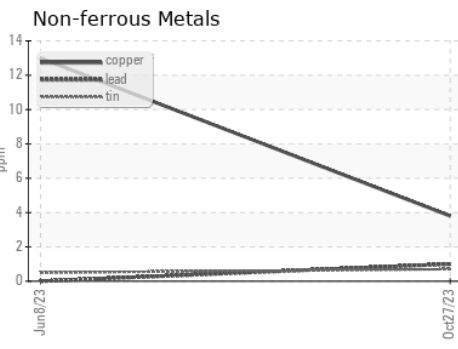
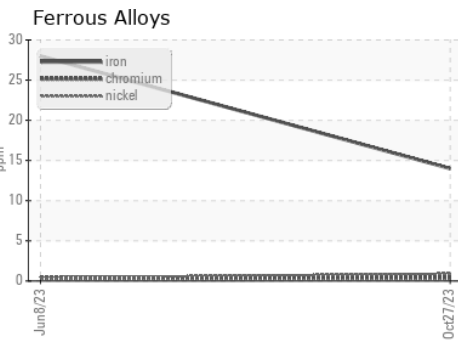
OIL ANALYSIS REPORT



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	14.7	13.9	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0084618 **Received** : 31 Oct 2023
Lab Number : **05994949** **Diagnosed** : 02 Nov 2023
Unique Number : 10723309 **Diagnostician** : Don Baldrige
Test Package : FLEET

GFL Environmental - 856 - Houston South
 8515 Highway 6 South
 Houston, TX
 US 77083
 Contact: Gino Griego

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)

T:
F: