



PROBLEM SUMMARY

Sample Rating Trend



FUEL



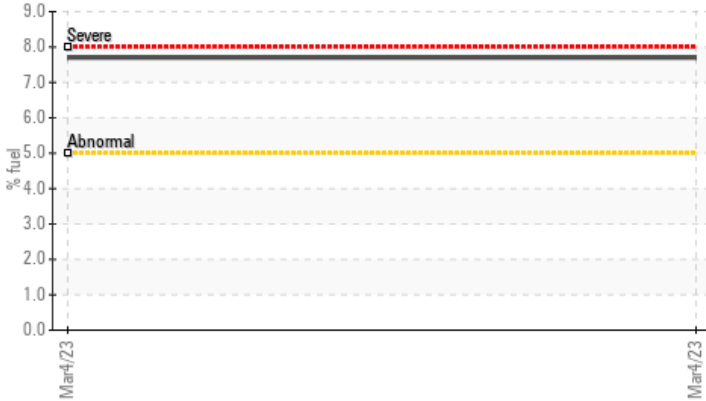
Machine Id
225025

Component
Diesel Engine

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

COMPONENT CONDITION SUMMARY

▲ Fuel Dilution



▲ Viscosity @ 100°C



RECOMMENDATION

We advise that you check the fuel injection system.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Fuel	%	ASTM D3524	>5	▲ 7.7	---	---
Visc @ 100°C	cSt	ASTM D445	15.4	▲ 12.1	---	---

Customer Id: GFL9999
Sample No.: GFL0065560
Lab Number: 05802214
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

Action	Status	Date	Done By	Description
Check Fuel/injector System	---	---	?	We advise that you check the fuel injection system.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

Machine Id
225025

Component
Diesel Engine

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

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0065560	---	---
Sample Date	Client Info	04 Mar 2023	---	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	Not Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	26	---
Chromium	ppm	ASTM D5185m >20	1	---
Nickel	ppm	ASTM D5185m >4	0	---
Titanium	ppm	ASTM D5185m	0	---
Silver	ppm	ASTM D5185m >3	0	---
Aluminum	ppm	ASTM D5185m >20	3	---
Lead	ppm	ASTM D5185m >40	<1	---
Copper	ppm	ASTM D5185m >330	1	---
Tin	ppm	ASTM D5185m >15	<1	---
Vanadium	ppm	ASTM D5185m	0	---
Cadmium	ppm	ASTM D5185m	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	2	---
Barium	ppm	ASTM D5185m 0	2	---
Molybdenum	ppm	ASTM D5185m 60	54	---
Manganese	ppm	ASTM D5185m 0	<1	---
Magnesium	ppm	ASTM D5185m 1010	826	---
Calcium	ppm	ASTM D5185m 1070	975	---
Phosphorus	ppm	ASTM D5185m 1150	921	---
Zinc	ppm	ASTM D5185m 1270	1099	---
Sulfur	ppm	ASTM D5185m 2060	2653	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	11	---
Sodium	ppm	ASTM D5185m	6	---
Potassium	ppm	ASTM D5185m >20	2	---
Fuel	%	ASTM D3524 >5	▲ 7.7	---

INFRA-RED

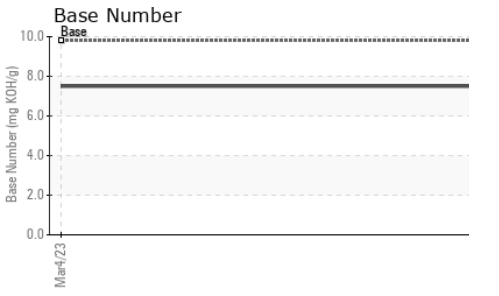
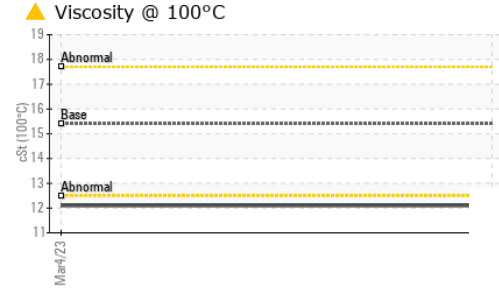
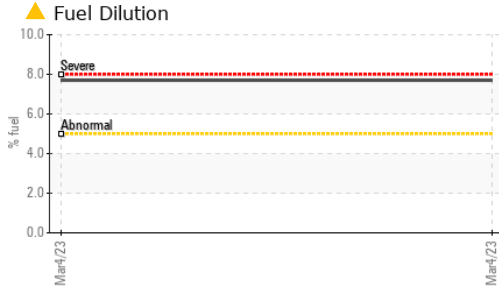
method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.9	---
Nitration	Abs/cm	*ASTM D7624 >20	11.6	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.2	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	20.4	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	7.5	---



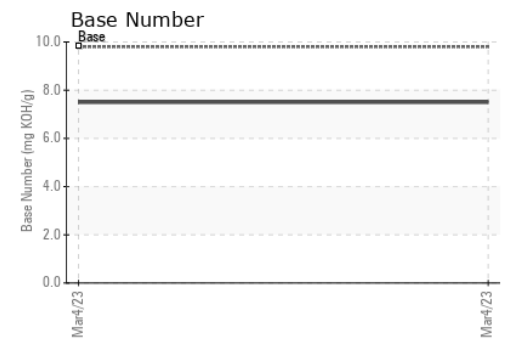
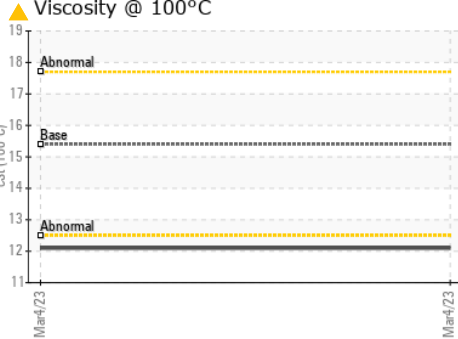
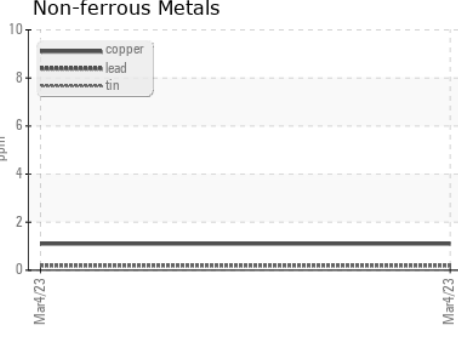
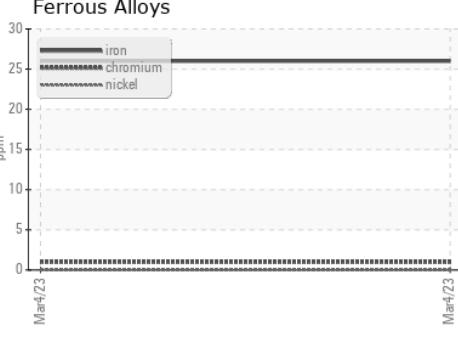
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.4	▲ 12.1	---	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0065560 **Received** : 27 Mar 2023
Lab Number : 05802214 **Diagnosed** : 30 Mar 2023
Unique Number : 10399743 **Diagnostician** : Jonathan Hester
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

GFL Environmental - 9999 - Moved No Longer Used Units

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)

US
Contact:

T:
F: