



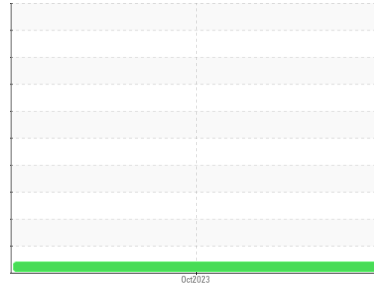
PROBLEM SUMMARY

Sample Rating Trend

VISCOSITY

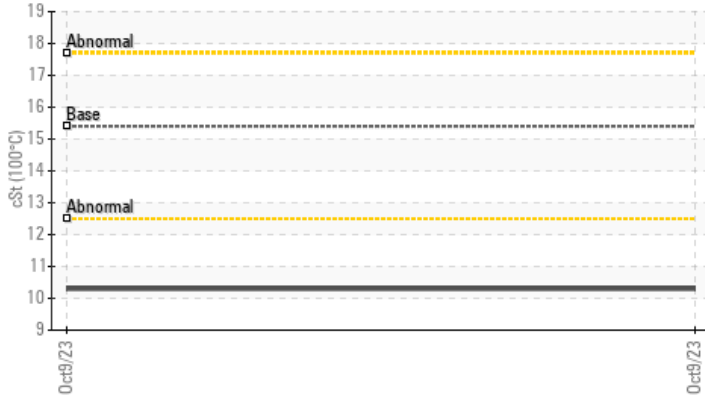
Area
{UNASSIGNED}
Machine Id
MCC 06 F-350

Component
Gasoline Engine
Fluid
PETRO CANADA DURON SHP 15W40 (7 QTS)



COMPONENT CONDITION SUMMARY

▲ Viscosity @ 100°C



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	---	---
Visc @ 100°C	cSt	ASTM D445	15.4	▲ 10.3	---	---

Customer Id: GFL820
Sample No.: GFL0088065
Lab Number: 05981716
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
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To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

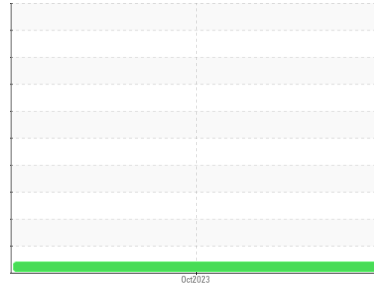
There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area
{UNASSIGNED}
 Machine Id
MCC 06 F-350

Component
Gasoline Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (7 QTS)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. 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	GFL0088065	---	---
Sample Date	Client Info	09 Oct 2023	---	---
Machine Age	mls	Client Info	161523	---
Oil Age	mls	Client Info	0	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ATTENTION	---	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	119	---
Chromium	ppm	ASTM D5185m >20	8	---
Nickel	ppm	ASTM D5185m >5	4	---
Titanium	ppm	ASTM D5185m	<1	---
Silver	ppm	ASTM D5185m >2	0	---
Aluminum	ppm	ASTM D5185m >40	16	---
Lead	ppm	ASTM D5185m >50	0	---
Copper	ppm	ASTM D5185m >155	10	---
Tin	ppm	ASTM D5185m >10	<1	---
Vanadium	ppm	ASTM D5185m	<1	---
Cadmium	ppm	ASTM D5185m	<1	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	14	---
Barium	ppm	ASTM D5185m 0	10	---
Molybdenum	ppm	ASTM D5185m 60	179	---
Manganese	ppm	ASTM D5185m 0	2	---
Magnesium	ppm	ASTM D5185m 1010	554	---
Calcium	ppm	ASTM D5185m 1070	1096	---
Phosphorus	ppm	ASTM D5185m 1150	717	---
Zinc	ppm	ASTM D5185m 1270	910	---
Sulfur	ppm	ASTM D5185m 2060	2286	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	28	---
Sodium	ppm	ASTM D5185m >400	9	---
Potassium	ppm	ASTM D5185m >20	3	---
Fuel	%	ASTM D3524 >4.0	1.6	---

INFRA-RED

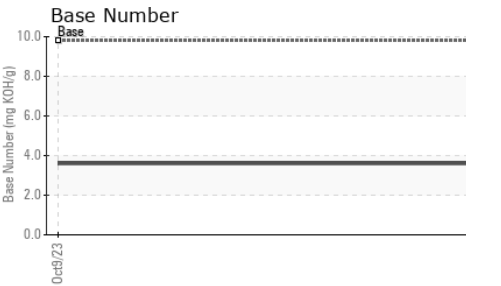
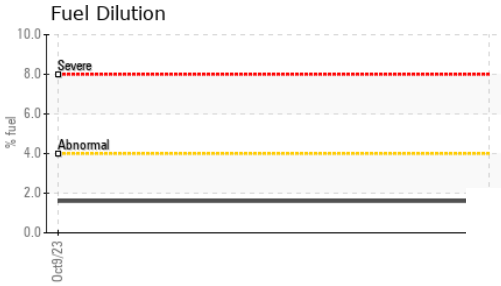
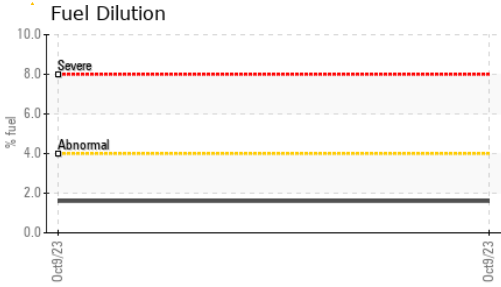
method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0.1	---
Nitration	Abs/cm	*ASTM D7624 >20	15.9	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	27.9	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	27.8	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	3.6	---



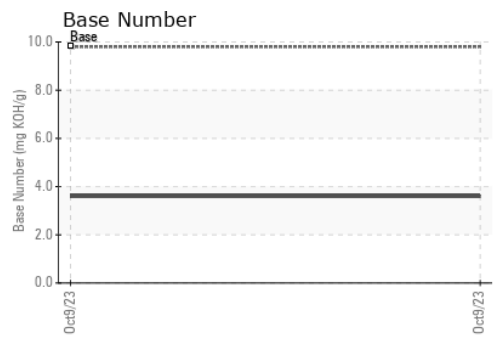
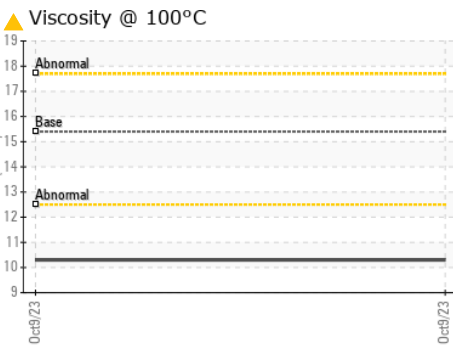
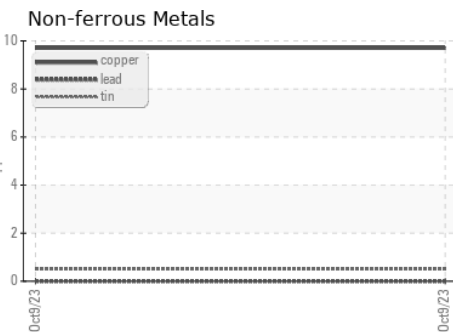
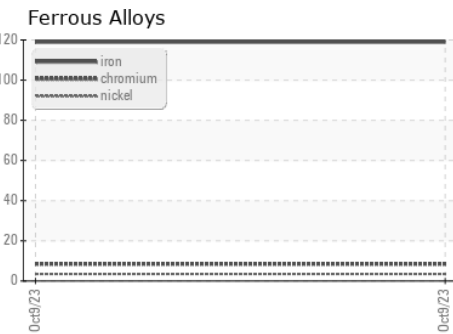
OIL ANALYSIS REPORT



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	▲ 10.3	---	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0088065 **Received** : 17 Oct 2023
Lab Number : 05981716 **Diagnosed** : 19 Oct 2023
Unique Number : 10699011 **Diagnostician** : Jonathan Hester
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

GFL Environmental - 820 - Joplin Hauling
 3700 West 7th Street
 Joplin, MO
 US 64801
 Contact: TECHNICIAN ACCOUNT
 wcgfldemo@gmail.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)