

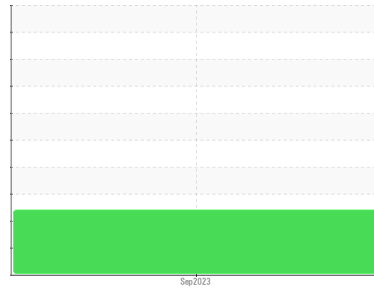


PROBLEM SUMMARY



Machine Id
413108
 Component
Hydraulic System
 Fluid
PETRO CANADA HYDREX MV 46 (--- GAL)

Sample Rating Trend

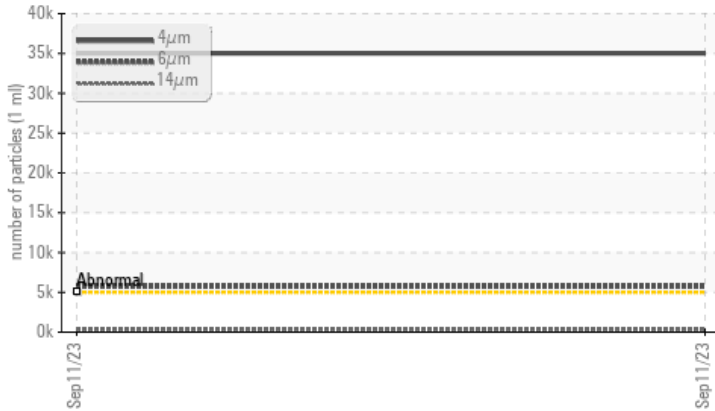


VISCOSITY



COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Viscosity @ 40°C



RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Particles >4µm	ASTM D7647	>5000	▲ 35003	---	---	---
Particles >6µm	ASTM D7647	>1300	▲ 5726	---	---	---
Particles >14µm	ASTM D7647	>160	▲ 316	---	---	---
Particles >21µm	ASTM D7647	>40	▲ 58	---	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 22/20/15	---	---	---
Visc @ 40°C	cSt	ASTM D445 45.4	▲ 34.5	---	---	---

Customer Id: GFL836
 Sample No.: GFL0090727
 Lab Number: 05951339
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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



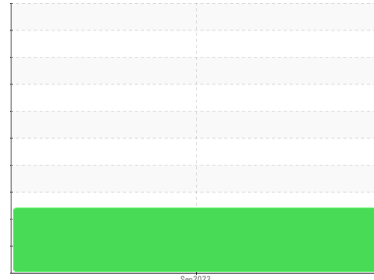
OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Machine Id
413108
 Component
Hydraulic System
 Fluid
PETRO CANADA HYDREX MV 46 (--- GAL)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0090727	---	---
Sample Date	Client Info	11 Sep 2023	---	---
Machine Age	hrs Client Info	2425	---	---
Oil Age	hrs Client Info	2425	---	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >50	2	---	---
Chromium ppm	ASTM D5185m >10	<1	---	---
Nickel ppm	ASTM D5185m >4	0	---	---
Titanium ppm	ASTM D5185m	0	---	---
Silver ppm	ASTM D5185m	0	---	---
Aluminum ppm	ASTM D5185m >5	2	---	---
Lead ppm	ASTM D5185m >4	0	---	---
Copper ppm	ASTM D5185m >15	3	---	---
Tin ppm	ASTM D5185m >4	0	---	---
Vanadium ppm	ASTM D5185m	0	---	---
Cadmium ppm	ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 0	0	---	---
Barium ppm	ASTM D5185m 0	0	---	---
Molybdenum ppm	ASTM D5185m 0	0	---	---
Manganese ppm	ASTM D5185m 1	0	---	---
Magnesium ppm	ASTM D5185m 0	48	---	---
Calcium ppm	ASTM D5185m 50	40	---	---
Phosphorus ppm	ASTM D5185m 330	328	---	---
Zinc ppm	ASTM D5185m 430	396	---	---
Sulfur ppm	ASTM D5185m 760	983	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >15	3	---	---
Sodium ppm	ASTM D5185m	<1	---	---
Potassium ppm	ASTM D5185m >20	0	---	---

FLUID CLEANLINESS

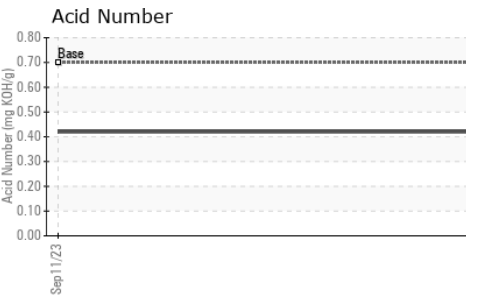
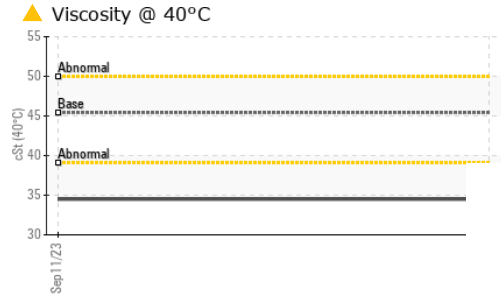
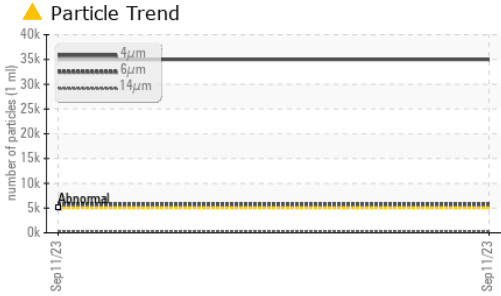
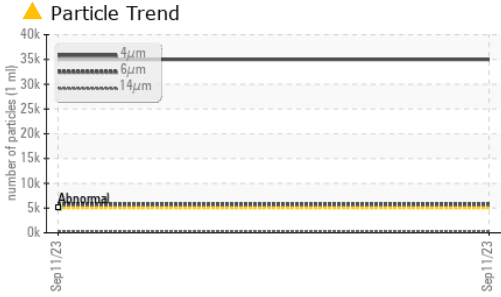
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 35003	---	---
Particles >6µm	ASTM D7647 >1300	▲ 5726	---	---
Particles >14µm	ASTM D7647 >160	▲ 316	---	---
Particles >21µm	ASTM D7647 >40	▲ 58	---	---
Particles >38µm	ASTM D7647 >10	1	---	---
Particles >71µm	ASTM D7647 >3	0	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 22/20/15	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 0.70	0.42	---	---



OIL ANALYSIS REPORT



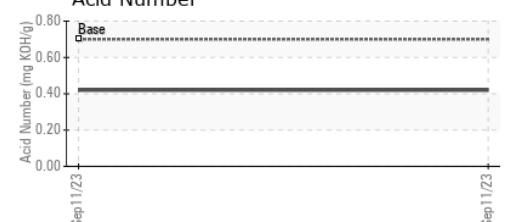
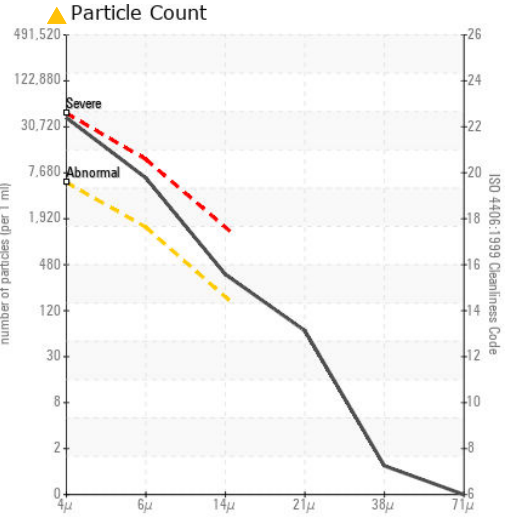
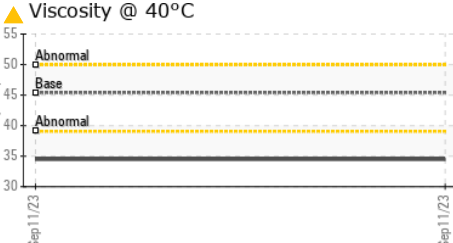
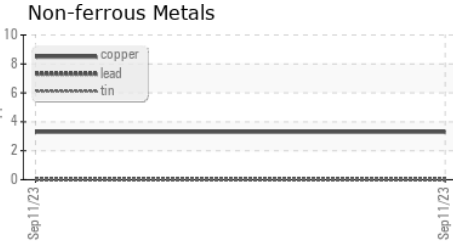
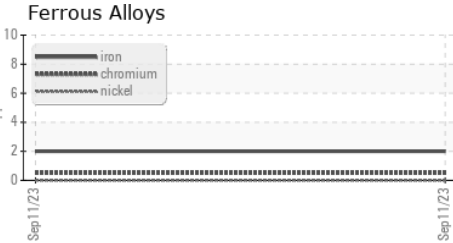
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
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 @ 40°C	cSt	ASTM D445	45.4	▲ 34.5	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0090727 **Received** : 14 Sep 2023
Lab Number : 05951339 **Diagnosed** : 19 Sep 2023
Unique Number : 10647298 **Diagnostician** : Don Baldrige
Test Package : FLEET (Additional Tests: PrtCount)

GFL Environmental - 836 - Kansas City Hauling
 7801 East Truman Road
 Kansas City, MO
 US 64126
 Contact: Robert Hart
 rhart@gflenv.com
 T: (580)461-1509
 F:

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)