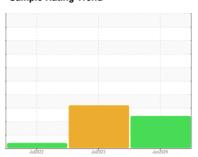


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id
731115
Component

Hydraulic System

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.

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0124053	GFL0087238	GFL0050587
Sample Date		Client Info		26 Jun 2024	07 Jul 2023	26 Jul 2022
Machine Age	hrs	Client Info		7516	5214	3279
Oil Age	hrs	Client Info		2400	5214	3279
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	10	7	3
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>10	2	<1	0
Lead	ppm	ASTM D5185m	>10	<1	<1	<1
Copper	ppm	ASTM D5185m	>75	3	2	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	<1
Barium	ppm	ASTM D5185m	0	1	0	0
Molybdenum	ppm	ASTM D5185m	0	1	<1	0
Manganese	ppm	ASTM D5185m	1	<1	0	0
Magnesium	ppm	ASTM D5185m	0	5	0	<1
Calcium	ppm	ASTM D5185m	50	47	39	34
Phosphorus	ppm	ASTM D5185m	330	256	286	262
Zinc	ppm	ASTM D5185m	430	346	340	311
Sulfur	nnm	A OTH A DELOF				
	ppm	ASTM D5185m	760	758	839	855
CONTAMINAN		method	760 limit/base	758 current	839 history1	855 history2
CONTAMINANT Silicon			limit/base			
	ΓS	method	limit/base	current	history1	history2
Silicon	ΓS ppm	method ASTM D5185m	limit/base >20	current 4	history1	history2 2
Silicon Sodium	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >20	current 4 3	history1 3 0	history2 2 0
Silicon Sodium Potassium	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >20 >20	current 4 3	history1 3 0 1	history2 2 0 1
Silicon Sodium Potassium FLUID CLEANL	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >20 >20 limit/base	current 4 3 1 current	history1 3 0 1 history1	history2 2 0 1 history2
Silicon Sodium Potassium FLUID CLEANL Particles >4µm	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647	limit/base >20 >20 limit/base >5000	current  4 3 1 current  37863	history1  3 0 1 history1  ▲ 106086	history2 2 0 1 history2
Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm	ppm ppm	method  ASTM D5185m ASTM D5185m ASTM D5185m method  ASTM D7647 ASTM D7647	limit/base	current  4 3 1 current  ▲ 37863 ▲ 13609	history1  3 0 1  history1  ▲ 106086  ▲ 38711	history2 2 0 1 history2
Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm Particles >14µm	ppm ppm	method  ASTM D5185m ASTM D5185m ASTM D5185m method  ASTM D7647 ASTM D7647 ASTM D7647	limit/base   >20	current  4 3 1 current  ▲ 37863 ▲ 13609 ▲ 812	history1  3 0 1  history1  ▲ 106086  ▲ 38711  ▲ 3293	history2 2 0 1 history2
Silicon Sodium Potassium  FLUID CLEANL Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm	method  ASTM D5185m ASTM D5185m ASTM D5185m method  ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >20 >20 limit/base >5000 >1300 >160 >40	current  4 3 1 current  ▲ 37863 ▲ 13609 ▲ 812 ▲ 136	history1  3 0 1 history1  ▲ 106086  ▲ 38711  ▲ 3293  ▲ 847	history2  2 0 1 history2
Silicon Sodium Potassium  FLUID CLEANL Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm	method  ASTM D5185m ASTM D5185m ASTM D5185m method  ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >20  >20  limit/base >5000 >1300 >160 >40 >10	current  4 3 1 current  ▲ 37863  ▲ 13609  ▲ 812  ▲ 136 2	history1  3 0 1 history1  ▲ 106086  ▲ 38711  ▲ 3293  ▲ 847  ▲ 57	history2  2  0  1  history2

Acid Number (AN)

mg KOH/g ASTM D8045 0.70

0.34

0.25

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## OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0124053 Lab Number : 06223437 Unique Number : 11101634

Test Package : FLEET ( Additional Tests: PrtCount )

Received **Tested** 

: 28 Jun 2024 : 01 Jul 2024 Diagnosed

: 01 Jul 2024 - Don Baldridge

Contact: Loyce Stewart loyce.stewart@gflenv.com

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road

Kansas City, MO

US 64126

T:

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)

Report Id: GFL836 [WUSCAR] 06223437 (Generated: 07/01/2024 13:59:34) Rev: 1

Contact/Location: GFL823,834,836,837,840 - Loyce Stewart - GFL836