

## **PROBLEM SUMMARY**

Sample Rating Trend



#### Machine Id 723033-303003 Component

Hydraulic System Fluid PETRO CANADA HYDREX MV 46 (--- GAL)



## COMPONENT CONDITION SUMMARY



### RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

## PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	 
Particles >4µm	ASTM D7647	>5000	<b>e</b> 327763	 
Particles >6µm	ASTM D7647	>1300	🛑 188975	 
Particles >14µm	ASTM D7647	>160	9265	 
Particles >21µm	ASTM D7647	>40	🛑 1174	 
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>e</b> 26/25/20	 

Customer Id: GFL837 Sample No.: GFL0102464 Lab Number: 06065546 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.		
Resample			?	Resample in 30-45 days to monitor this situation.		
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.		
Check Dirt Access			?	We advise that you check all areas where contaminants can enter the system.		
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.		

### HISTORICAL DIAGNOSIS



## **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO



Machine Id 723033-303003 Component

Hydraulic System

PETRO CANADA HYDREX MV 46 (--- GAL)

### Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

REX MV 46 ( (	GAL)			Jan2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102464		
Sample Date		Client Info		08 Jan 2024		
Vachine Age	hrs	Client Info		21063		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				SEVERE		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>40	12		
Chromium	ppm	ASTM D5185m		<1		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	~ _	0		
Aluminum	ppm	ASTM D5185m	>8	<1		
Lead	ppm	ASTM D5185m	>0 >5	< 1 0		
Copper		ASTM D5185m		4		
Tin	ppm	ASTM D5185m	>20	4		
	ppm		>2	-		
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	<1		
Vanganese	ppm	ASTM D5185m	1	<1		
Vagnesium	ppm	ASTM D5185m	0	16		
Calcium	ppm	ASTM D5185m	50	97		
Phosphorus	ppm	ASTM D5185m	330	337		
Zinc	ppm	ASTM D5185m	430	421		
Sulfur	ppm	ASTM D5185m	760	830		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	5		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID CLEAN	LINESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	• 327763		
Particles >6µm		ASTM D7647	>1300	🛑 188975		
Particles >14µm		ASTM D7647	>160	9265		
Particles >21µm		ASTM D7647	>40	• 1174		
Particles >38µm		ASTM D7647	>10	11		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>e</b> 26/25/20		
FLUID DEGRA	DAT <u>IO</u> N	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.70	0.31		
13·02) Boy: 1				Contact/Location		

Contact/Location: BRYAN SWANSON - GFL837



0k

0.80

0.70 (B/HO) B 0.50

0.40 j 10.30

Pg 0.20

0.10 0.00

52

50

48 () 46 0+0+044

रेंडे <sub>42</sub>

40 Abnom

38 36 Jan 8/24

Ba

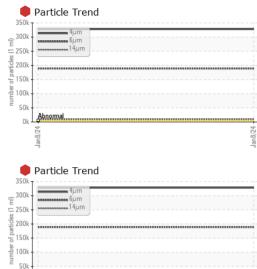
Base

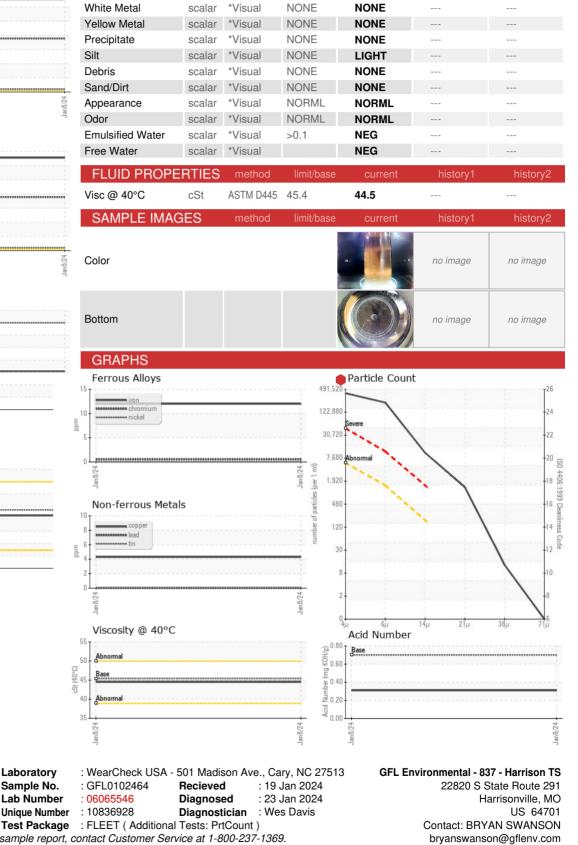
Acid Number

Viscosity @ 40°C

# **OIL ANALYSIS REPORT**

VISUAL





Laboratory

Sample No.



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)

Contact/Location: BRYAN SWANSON - GFL837

T:

F: