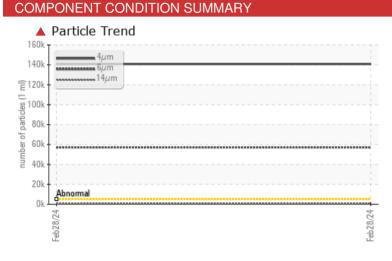




# Sample Rating Trend ISO

#### Machine Id **426059** 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.

#### PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	 
Particles >4µm	ASTM D7647	>5000	<b>140822</b>	 
Particles >6µm	ASTM D7647	>1300	<b>4</b> 57132	 
Particles >14µm	ASTM D7647	>160	<u> </u>	 
Particles >21µm	ASTM D7647	>40	<mark>/</mark> 91	 
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>4</b> 24/23/17	 

Customer Id: GFL836 Sample No.: GFL0114100 Lab Number: 06120159 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



 $\mathbf{X}$ 

Machine Id **426059** Component Hydraulic System

PETRO CANADA HYDREX MV 46 (--- GAL)

#### DIAGNOSIS

#### A 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.

				Feb2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0114100		
Sample Date		Client Info		28 Feb 2024		
Machine Age	hrs	Client Info		3422		
Oil Age	hrs	Client Info		0		
Oil Changed	1115	Client Info		Not Changd		
Sample Status				SEVERE		
		method	line it //s a s a	-		
Water		WC Method	limit/base	current	history1	history2
	0			-		
WEAR METAL		method	limit/base	current	history1	history2
lron	ppm	ASTM D5185m	>20	16		
Chromium	ppm		>10	2		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm		>10	2		
₋ead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	2		
Гin	ppm	ASTM D5185m	>10	0		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1		
Barium	ppm	ASTM D5185m	0	0		
Nolybdenum	ppm	ASTM D5185m	0	3		
Manganese	ppm	ASTM D5185m	1	<1		
Magnesium	ppm	ASTM D5185m	0	10		
Calcium	ppm	ASTM D5185m	50	107		
Phosphorus	ppm	ASTM D5185m	330	331		
Zinc	ppm	ASTM D5185m	430	435		
Sulfur	ppm	ASTM D5185m	760	1075		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	<1		
FLUID CLEAN	ILINESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>140822</b>		
Particles >6μm		ASTM D7647	>1300	<b>4</b> 57132		
Particles >14µm		ASTM D7647	>160	<mark>/</mark> 793		
Particles >21μm		ASTM D7647	>40	<mark>/</mark> 91		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>4</b> 24/23/17		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.70	0.41		
35:46) Rev: 1				c	Submitted By: JE	

Report Id: GFL836 [WUSCAR] 06120159 (Generated: 03/18/2024 11:35:46) Rev: 1



# **OIL ANALYSIS REPORT**

