

PROBLEM SUMMARY

Sample Rating Trend

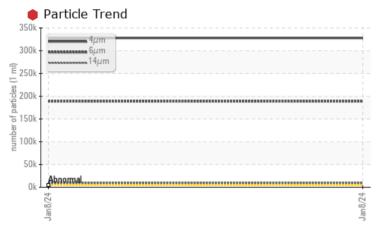


Machine Id 723033-303003 Component

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	e 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	e 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	e 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

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40 Abnom

38 36 Jan 8/24

Ba

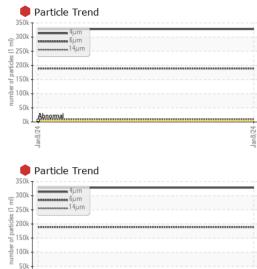
Base

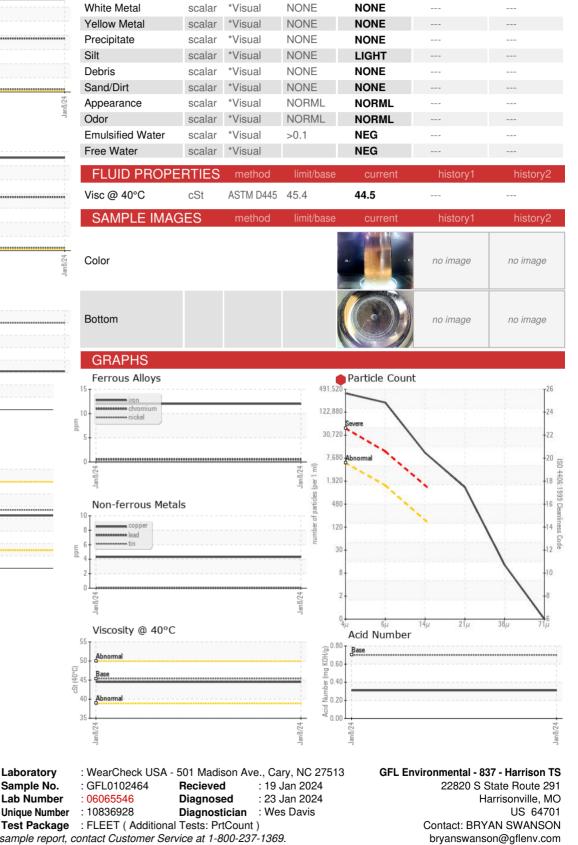
Acid Number

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: