

#### Machine Id **421047** Component **Hydraulic System** Fluid **PETRO CANADA HYDREX MV 32 (--- GAL)**

## RECOMMENDATION

We recommend an early resample to monitor this condition. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 2 test kits, this testkit includes Particle Count to determine the ISO cleanliness of the fluid.

### WEAR

Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

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#### CONTAMINATION

There is no indication of any contamination in the component(unconfirmed).

#### **FLUID CONDITION**

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0089853		
Sample Date		Client Info		06 Feb 2024		
Machine Age	hrs	Client Info		5574		
Oil Age	hrs	Client Info		5574		
Filter Age	hrs	Client Info		5574		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
PQ		ASTM D8184*		10		
Iron	ppm	ASTM D5185(m)	>20	<mark>▲</mark> 58		
Chromium	ppm	ASTM D5185(m)	>10	<1		
Nickel	ppm	ASTM D5185(m)	>10	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>10	6		
Lead	ppm	ASTM D5185(m)	>10	<1		
Copper	ppm	ASTM D5185(m)	>75	1		
Tin	ppm	ASTM D5185(m)	>10	0		
Vanadium	ppm	ASTM D5185(m)		0		
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Silicon	ppm	ASTM D5185(m)	>20	12		
Potassium	ppm	ASTM D5185(m)	>20	2		
Water	ppm	WC Method	>0.1	2 NEG		
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		
		visuai	20.1			
Sodium	ppm	ASTM D5185(m)		5		
Boron	ppm	ASTM D5185(m)	0	0		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	0	0		
Manganese	ppm	ASTM D5185(m)	1	0		
Magnesium	ppm	ASTM D5185(m)	0	3		
Calcium	ppm	ASTM D5185(m)	50	55		
Phosphorus	ppm	ASTM D5185(m)	330	337		
Zinc	ppm	ASTM D5185(m)	430	413		
Sulfur	ppm	ASTM D5185(m)	760	844		
	<u>.</u>		01.0			

Visc @ 40°C

cSt

ASTM D7279(m) 31.9

Contact/Location: Patrick Rutti - GFL544

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# WEAR ABNORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



