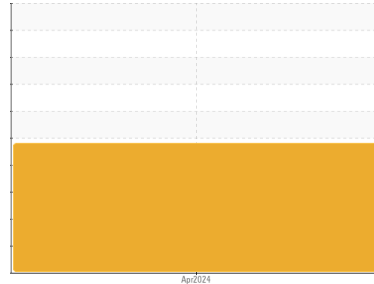


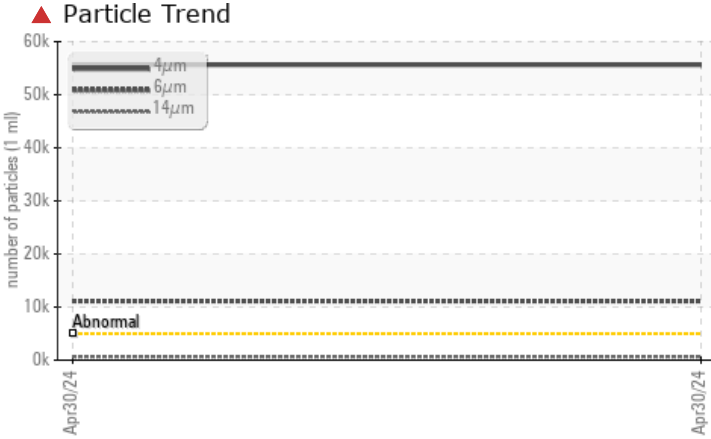
# PROBLEM SUMMARY

Area  
[PRERINSE]  
Machine Id  
**GEOTECH**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA ENVIRON MV R 32 (80 LTR)**

Sample Rating Trend



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

Nous vous recommandons de vérifier tous les endroits par lesquels des contaminants peuvent pénétrer dans le système. Nous vous recommandons de remplacer le filtre et d'utiliser un système de filtrage hors-ligne afin d'améliorer la propreté du fluide. Le reniflard d'air doit être réparé. S'il n'est pas classé, nous vous recommandons de le remplacer par un reniflard à air adapté au micron et / ou au dessicant. Si évalué, nous vous recommandons de réparer / remplacer le reniflard. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation.

## PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	---	---
Particles >4µm	ASTM D7647	>5000	▲ 55623	---	---
Particles >6µm	ASTM D7647	>1300	▲ 11123	---	---
Particles >14µm	ASTM D7647	>160	▲ 627	---	---
Particles >21µm	ASTM D7647	>40	▲ 128	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 23/21/16	---	---

Customer Id: HUIQUE  
Sample No.: PC0069616  
Lab Number: 02635284  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Kevin Marson +1 (289)291-4644 x4644  
[Kevin.Marson@wearcheck.com](mailto:Kevin.Marson@wearcheck.com)

To change component or sample information:  
Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

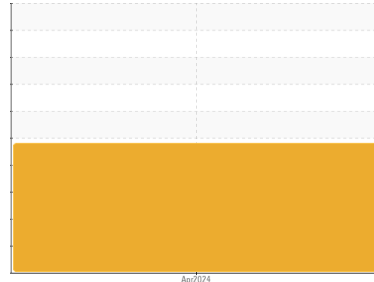
## RECOMMENDED ACTIONS

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



Area  
[PRERINSE]  
Machine Id  
**GEOTECH**  
Component  
Hydraulic System  
Fluid  
PETRO CANADA ENVIRON MV R 32 (80 LTR)



## DIAGNOSIS

### Recommendation

Nous vous recommandons de vérifier tous les endroits par lesquels des contaminants peuvent pénétrer dans le système. Nous vous recommandons de remplacer le filtre et d'utiliser un système de filtrage hors-ligne afin d'améliorer la propreté du fluide. Le reniflard d'air doit être réparé. S'il n'est pas classé, nous vous recommandons de le remplacer par un reniflard à air adapté au micron et / ou au dessicant. Si évalué, nous vous recommandons de réparer / remplacer le reniflard. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation.

### Wear

Le taux d'antimoine est marginal. Les taux d'usure de tous les autres composants sont normaux.

### Contamination

Il y a une quantité élevée de matières particulaires (2 à 100 µm de taille) présente dans l'huile.

### Fluid Condition

Le AN est acceptable pour ce fluide. l'huile peut encore servir si la contamination peut être réduite à un niveau acceptable.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PC0069616</b>	---	---
Sample Date	Client Info	<b>30 Apr 2024</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---
Oil Age	hrs	Client Info	<b>0</b>	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>SEVERE</b>	---	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	>0.05	<b>NEG</b>	---

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>20	<b>3</b>	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---
Nickel	ppm	ASTM D5185(m)	>20	<b>0</b>	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	---
Lead	ppm	ASTM D5185(m)	>20	<b>1</b>	---
Copper	ppm	ASTM D5185(m)	>20	<b>12</b>	---
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	---
Antimony	ppm	ASTM D5185(m)		<b>43</b>	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	<1	<b>&lt;1</b>	---
Barium	ppm	ASTM D5185(m)	<1	<b>0</b>	---
Molybdenum	ppm	ASTM D5185(m)	<1	<b>0</b>	---
Manganese	ppm	ASTM D5185(m)	<1	<b>&lt;1</b>	---
Magnesium	ppm	ASTM D5185(m)	<1	<b>2</b>	---
Calcium	ppm	ASTM D5185(m)		<b>103</b>	---
Phosphorus	ppm	ASTM D5185(m)	628	<b>382</b>	---
Zinc	ppm	ASTM D5185(m)		<b>325</b>	---
Sulfur	ppm	ASTM D5185(m)	1235	<b>1126</b>	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---

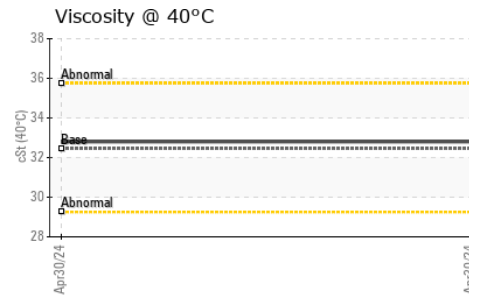
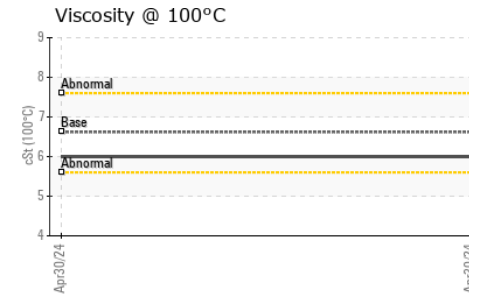
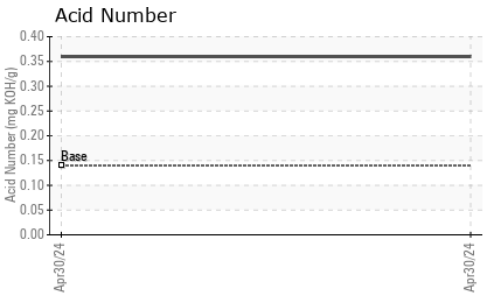
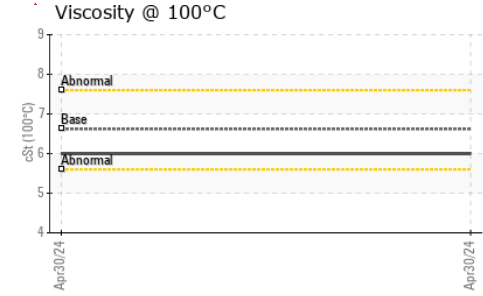
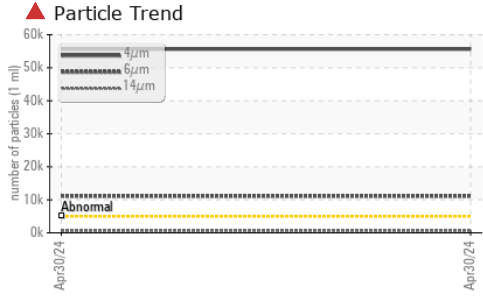
## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	<b>1</b>	---
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 55623</b>	---
Particles >6µm	ASTM D7647	>1300	<b>▲ 11123</b>	---
Particles >14µm	ASTM D7647	>160	<b>▲ 627</b>	---
Particles >21µm	ASTM D7647	>40	<b>▲ 128</b>	---
Particles >38µm	ASTM D7647	>10	<b>3</b>	---
Particles >71µm	ASTM D7647	>3	<b>1</b>	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 23/21/16</b>	---

# OIL ANALYSIS REPORT



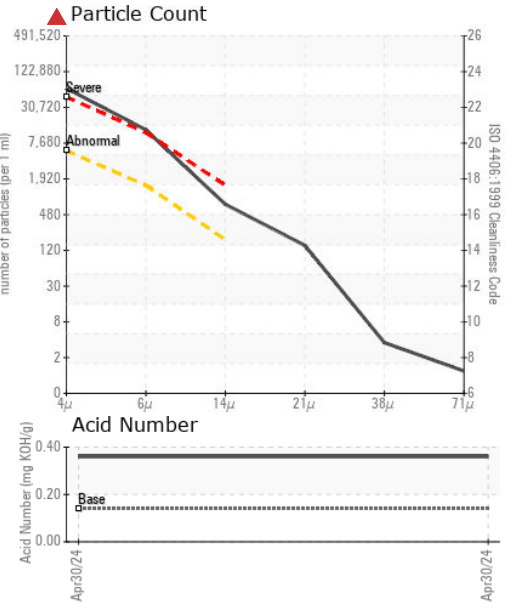
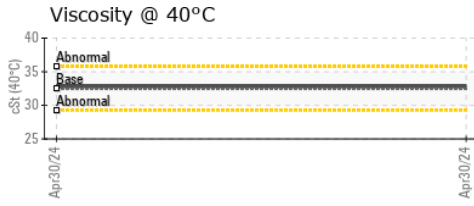
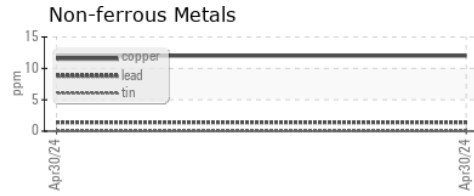
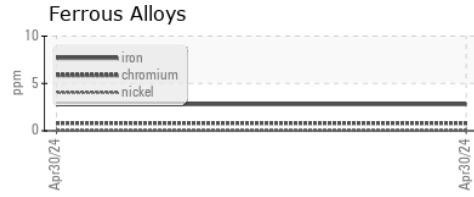
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.14	<b>0.36</b>	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.05	<b>NEG</b>	---	---
Free Water	scalar	Visual*		<b>NEG</b>	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	32.45	<b>32.8</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	6.62	<b>6.0</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	165	<b>130</b>	---	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0069616  
**Lab Number** : **02635284**  
**Unique Number** : 5776437  
**Test Package** : IND 2 ( Additional Tests: KV100, VI )  
**Received** : 14 May 2024  
**Tested** : 15 May 2024  
**Diagnosed** : 15 May 2024 - Kevin Marson

**HUILES DESROCHES INC.**  
 915 RUE PHILIPPE-PARADIS, LOCAL 115  
 QUEBEC, QC  
 CA G1N 4E3  
 Contact: David Labrecque  
 david.labrecque@groupe-desroches.ca  
 T: (418)621-5150  
 F: (418)621-0822