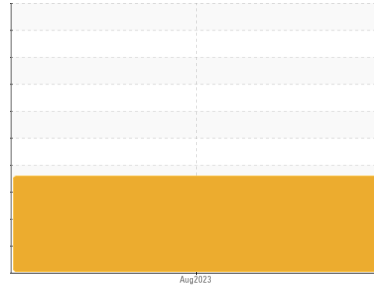




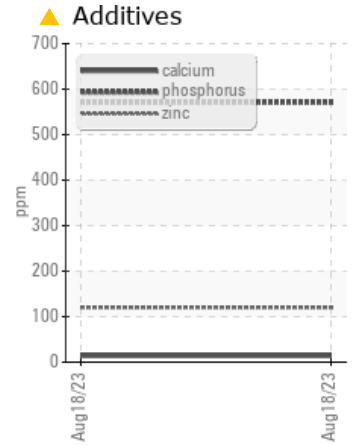
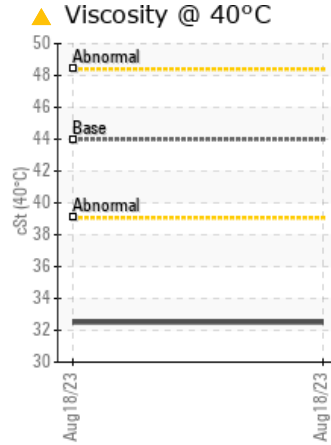
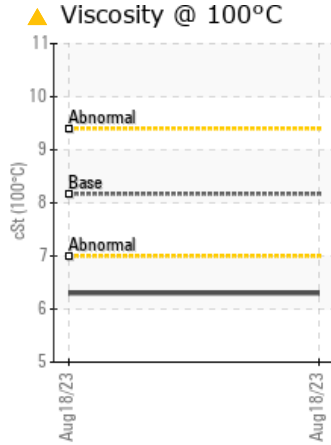
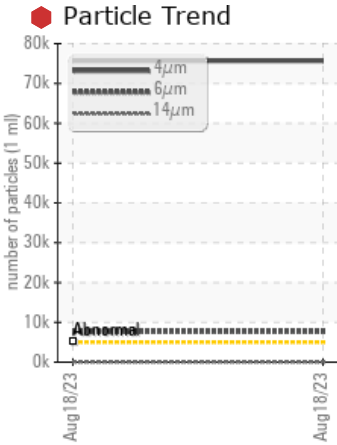
Machine Id
1ER FLUSH

Component
Hydraulic System

Fluid
PETRO CANADA ENVIRON MV R 46 (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

Vérifier les scelles et/ou les filtres pour des points d'entrée des contaminants. 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. Nous avons pris note que le filtre a été remplacé au moment de l'échantillonnage. Confirm the source of the lubricant being utilized for top-up/fill. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation. À NOTER: S.V.P. inclure, avec le prochain échantillon, des détails de la capacité du réservoir et le type et le degré de filtration.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Zinc	ppm	ASTM D5185(m)		▲ 120	---	---
Sulfur	ppm	ASTM D5185(m)	1236	▲ 3762	---	---
Particles >4µm		ASTM D7647	>5000	● 75674	---	---
Particles >6µm		ASTM D7647	>1300	▲ 7682	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● 23/20/13	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	43.99	▲ 32.5	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.17	▲ 6.3	---	---

Customer Id: HUIQUE
Sample No.: PC0062538
Lab Number: 02578091
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

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	Resample in 30-45 days to monitor this situation.
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
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 Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.

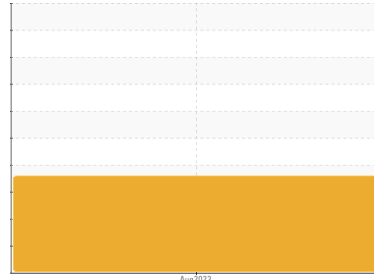
HISTORICAL DIAGNOSIS



Machine Id
1ER FLUSH

Component
Hydraulic System

Fluid
PETRO CANADA ENVIRON MV R 46 (--- GAL)



DIAGNOSIS

Recommendation

Vérifier les scelles et/ou les filters pour des points d'entrée des contaminants. 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. Nous avons pris note que le filtre a été remplacé au moment de l'échantillonnage. Confirm the source of the lubricant being utilized for top-up/fill. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation. À NOTER: S.V.P. inclure, avec le prochain échantillon, des détails de la capacité du réservoir et le type et le degré de filtration.

Wear

Les taux d'usure de tous les composants sont normaux.

Contamination

Il y a une grande quantité de limon (particules de 4 à 14 microns) dans l'huile.

Fluid Condition

La viscosité de l'échantillon se situe dans la portée de l'ISO 32; nous vous conseillons de vérifier. Ceci, en plus des niveaux d'additifs, indique que la marque ou le type d'huile ne correspond pas à ce qui a été signalé. 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	PC0062538	---	---
Sample Date	Client Info	18 Aug 2023	---	---
Machine Age	hrs Client Info	3700	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		SEVERE	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>20	7	---	---
Chromium ppm ASTM D5185(m)	>20	<1	---	---
Nickel ppm ASTM D5185(m)	>20	<1	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)		0	---	---
Aluminum ppm ASTM D5185(m)	>20	<1	---	---
Lead ppm ASTM D5185(m)	>20	<1	---	---
Copper ppm ASTM D5185(m)	>20	1	---	---
Tin ppm ASTM D5185(m)	>20	0	---	---
Antimony ppm ASTM D5185(m)		0	---	---
Vanadium ppm ASTM D5185(m)		0	---	---
Beryllium ppm ASTM D5185(m)		0	---	---
Cadmium ppm ASTM D5185(m)		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)	<1	<1	---	---
Barium ppm ASTM D5185(m)	<1	0	---	---
Molybdenum ppm ASTM D5185(m)	<1	0	---	---
Manganese ppm ASTM D5185(m)	<1	<1	---	---
Magnesium ppm ASTM D5185(m)	<1	<1	---	---
Calcium ppm ASTM D5185(m)		14	---	---
Phosphorus ppm ASTM D5185(m)	626	571	---	---
Zinc ppm ASTM D5185(m)		▲ 120	---	---
Sulfur ppm ASTM D5185(m)	1236	▲ 3762	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>15	3	---	---
Sodium ppm ASTM D5185(m)		<1	---	---
Potassium ppm ASTM D5185(m)	>20	<1	---	---

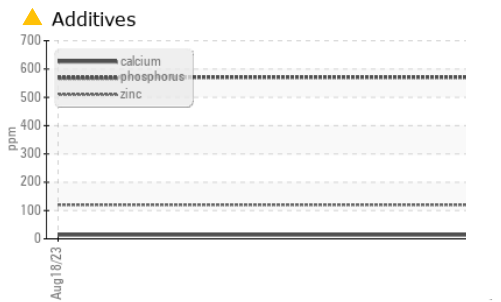
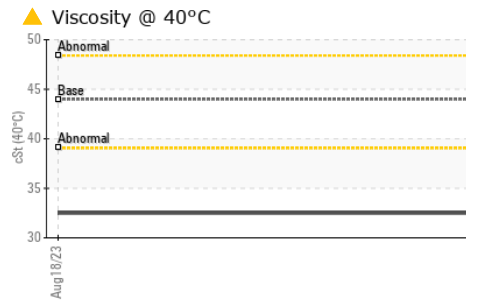
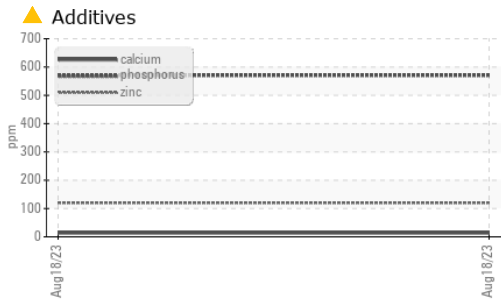
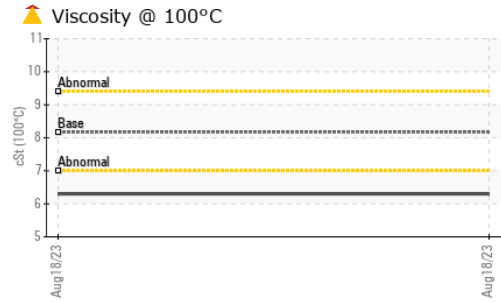
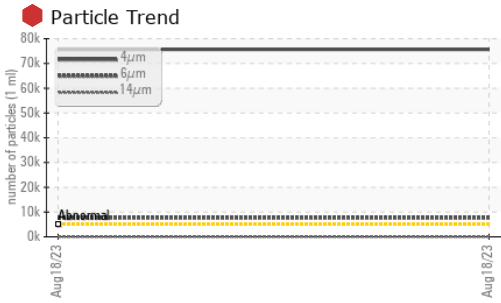
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	● 75674	---	---
Particles >6µm ASTM D7647	>1300	▲ 7682	---	---
Particles >14µm ASTM D7647	>160	60	---	---
Particles >21µm ASTM D7647	>40	7	---	---
Particles >38µm ASTM D7647	>10	1	---	---
Particles >71µm ASTM D7647	>3	0	---	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	● 23/20/13	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D974*	0.1	0.17	---	---

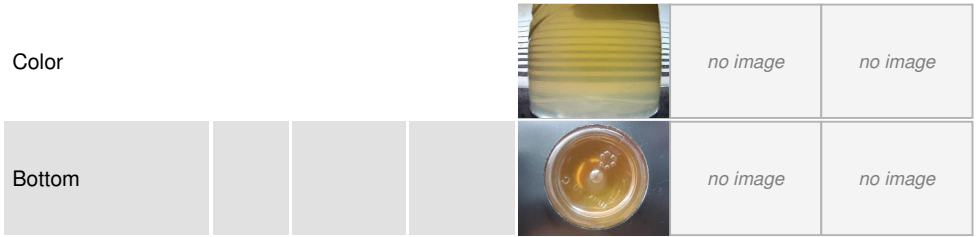
OIL ANALYSIS REPORT



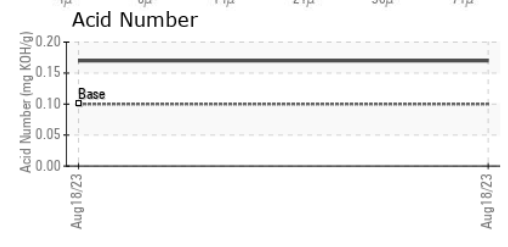
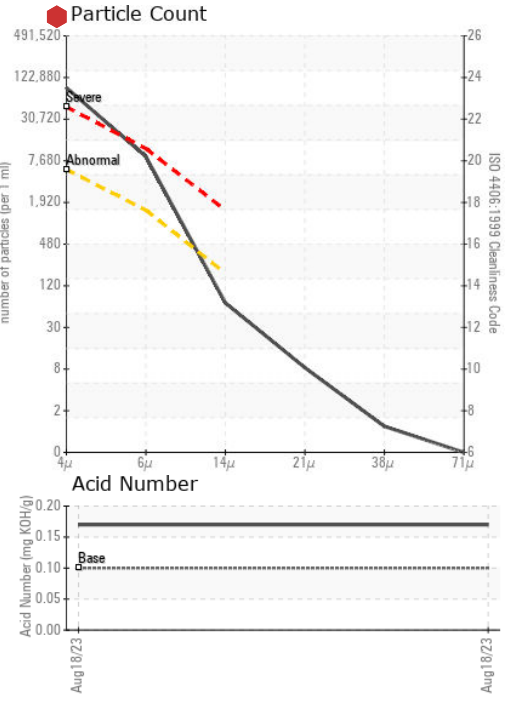
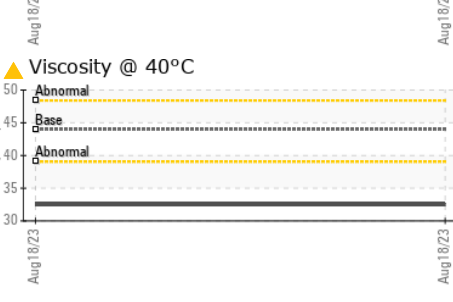
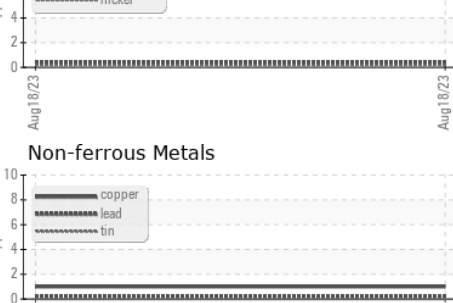
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	43.99	▲ 32.5	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.17	▲ 6.3	---
Viscosity Index (VI)	Scale	ASTM D2270*	162	147	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0062538 **Received** : 24 Aug 2023
Lab Number : 02578091 **Diagnosed** : 25 Aug 2023
Unique Number : 5631151 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: KV100, VI)

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 mboisvert@groupedesroches.ca
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 F: (418)621-0822

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.