

PROBLEM SUMMARY

Sample Rating Trend



ISO



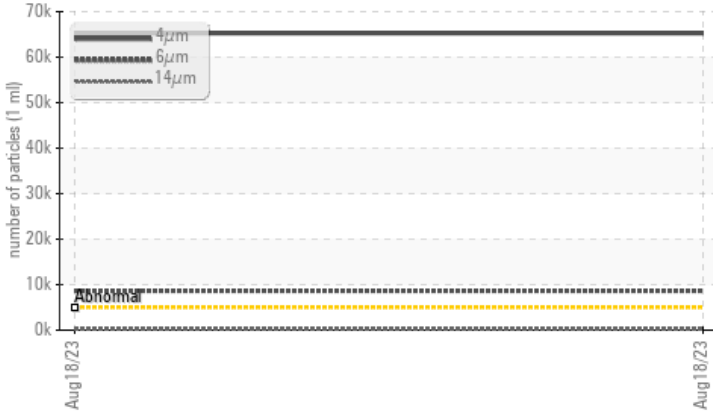
Machine Id
2E FLUSH

Component
Hydraulic System

Fluid
PETRO CANADA ENVIRON MV R 46 (400 LTR)

COMPONENT CONDITION SUMMARY

Particle Trend



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. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	---	---
Particles >4µm	ASTM D7647	>5000	🔴 65262	---	---
Particles >6µm	ASTM D7647	>1300	🟡 8646	---	---
Particles >14µm	ASTM D7647	>160	🟡 176	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	🔴 23/20/15	---	---

Customer Id: HUIQUE
Sample No.: PC0062547
Lab Number: 02578093
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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wesd@wearcheck.ca

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.
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 Seals	---	---	?	Check seals and/or filters for points of contaminant entry.

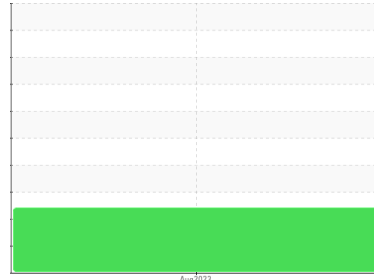
HISTORICAL DIAGNOSIS



Machine Id
2E FLUSH

Component
Hydraulic System

Fluid
PETRO CANADA ENVIRON MV R 46 (400 LTR)



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. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation.

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

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	PC0062547	---	---
Sample Date	Client Info	18 Aug 2023	---	---
Machine Age	hrs	Client Info	3700	---
Oil Age	hrs	Client Info	1	---
Oil Changed	Client Info	Changed	---	---
Sample Status		SEVERE	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >20	4	---
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	0	---
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)	7	---
Phosphorus	ppm	ASTM D5185(m) 626	621	---
Zinc	ppm	ASTM D5185(m)	56	---
Sulfur	ppm	ASTM D5185(m) 1236	2458	---
Lithium	ppm	ASTM D5185(m)	<1	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	1	---
Sodium	ppm	ASTM D5185(m)	0	---
Potassium	ppm	ASTM D5185(m) >20	<1	---

FLUID CLEANLINESS

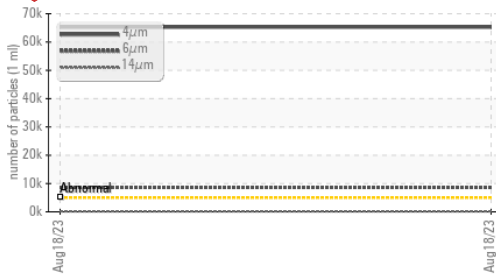
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	65262	---
Particles >6µm	ASTM D7647	>1300	8646	---
Particles >14µm	ASTM D7647	>160	176	---
Particles >21µm	ASTM D7647	>40	25	---
Particles >38µm	ASTM D7647	>10	1	---
Particles >71µm	ASTM D7647	>3	1	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	23/20/15	---

FLUID DEGRADATION

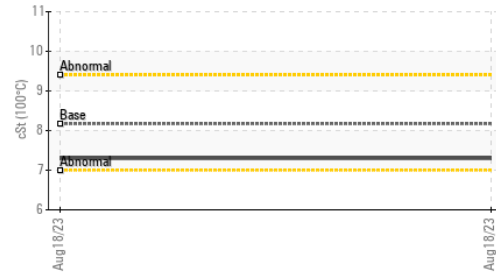
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.1	0.10	---

OIL ANALYSIS REPORT

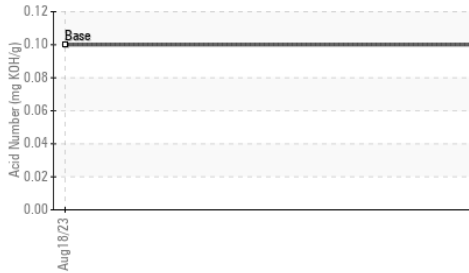
Particle Trend



Viscosity @ 100°C



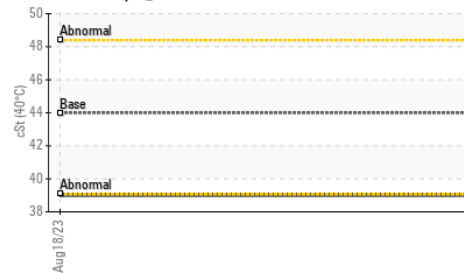
Acid Number



Viscosity @ 100°C



Viscosity @ 40°C



PROPERTY	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	VLITE	---
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*	>0.05	NEG	---
Free Water	scalar	Visual*		NEG	---

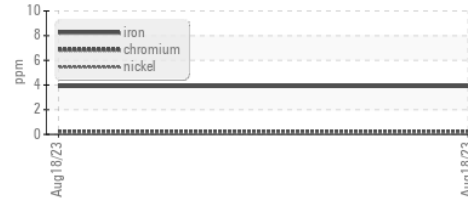
PROPERTY	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D2729(m)	43.99	39	---
Visc @ 100°C	cSt	ASTM D2729(m)	8.17	7.3	---
Viscosity Index (VI)	Scale	ASTM D2270*	162	154	---

SAMPLE IMAGES

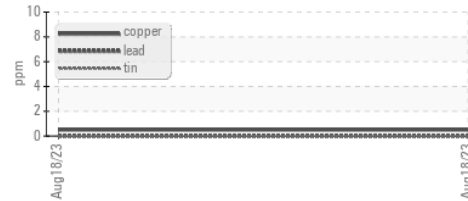
PROPERTY	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS

Ferrous Alloys



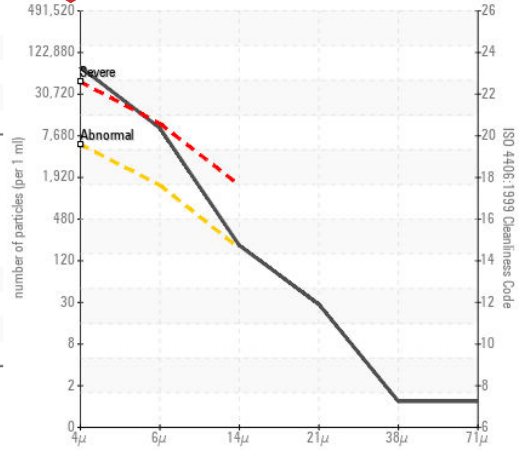
Non-ferrous Metals



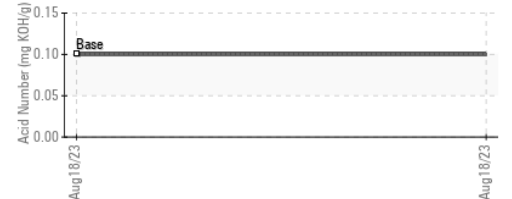
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0062547 **Received** : 24 Aug 2023
Lab Number : 02578093 **Diagnosed** : 25 Aug 2023
Unique Number : 5631153 **Diagnostician** : Wes Davis
Test Package : IND 2 (Additional Tests: KV100, VI)

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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.