

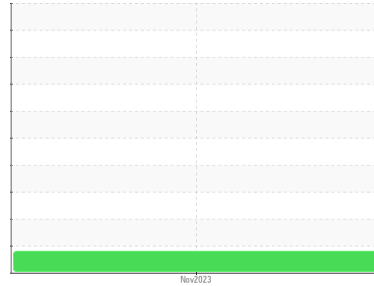
PROBLEM SUMMARY

Sample Rating Trend

ISO

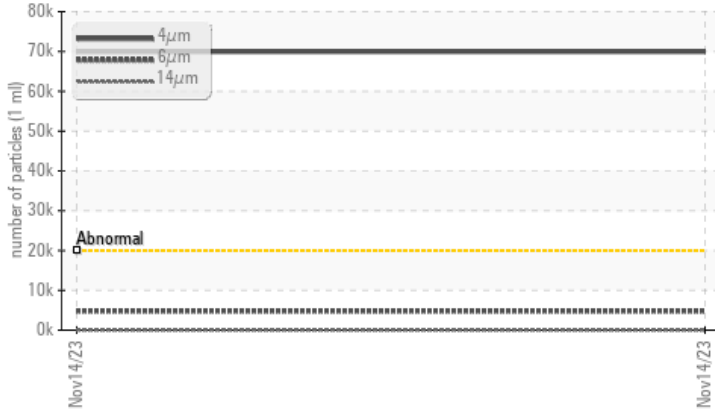


Machine Id
LIEBHERR LB20 LRH100 CFU04
Component
Hydraulic System
Fluid
PETRO CANADA ENVIRON MV 32 (600 LTR)



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

Nous recommandons le remplacement des filtres de ce composant. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. Veuillez noter qu'il s'agit d'une copie corrigée pour les mises à jour de saisie de données.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	---	---
Particles >4µm	ASTM D7647	>20000	▲ 69920	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 23/19/12	---	---

Customer Id: HUIQUE
Sample No.: PC0070368
Lab Number: 02597909
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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Kevin.Marson@wearcheck.com

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
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RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS



Machine Id
LIEBHERR LB20 LRH100 CFU04
 Component
Hydraulic System
 Fluid
PETRO CANADA ENVIRON MV 32 (600 LTR)



DIAGNOSIS

Recommendation

Nous recommandons le remplacement des filtres de ce composant. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. Veuillez noter qu'il s'agit d'une copie corrigée pour les mises à jour de saisie de données.

Wear

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

Contamination

Il y a une quantité modérée de particules (de 4 à 14 microns) dans l'huile. La teneur en eau est négligeable.

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	PC0070368	---	---
Sample Date	Client Info	14 Nov 2023	---	---
Machine Age	hrs Client Info	3888	---	---
Oil Age	hrs Client Info	3888	---	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>20	16	---	---
Chromium ppm ASTM D5185(m)	>10	2	---	---
Nickel ppm ASTM D5185(m)	>10	0	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)		<1	---	---
Aluminum ppm ASTM D5185(m)	>10	<1	---	---
Lead ppm ASTM D5185(m)	>10	<1	---	---
Copper ppm ASTM D5185(m)	>75	8	---	---
Tin ppm ASTM D5185(m)	>10	<1	---	---
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)	0	<1	---	---
Barium ppm ASTM D5185(m)	5	<1	---	---
Molybdenum ppm ASTM D5185(m)	0	0	---	---
Manganese ppm ASTM D5185(m)	0	0	---	---
Magnesium ppm ASTM D5185(m)	5	1	---	---
Calcium ppm ASTM D5185(m)	5	34	---	---
Phosphorus ppm ASTM D5185(m)	650	451	---	---
Zinc ppm ASTM D5185(m)	5	81	---	---
Sulfur ppm ASTM D5185(m)	1420	1345	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

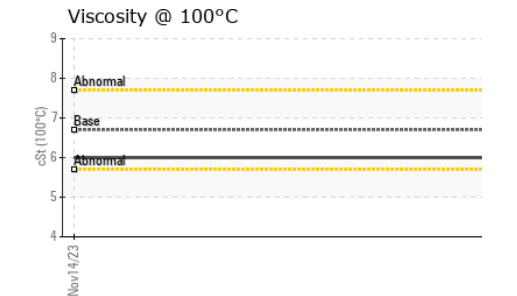
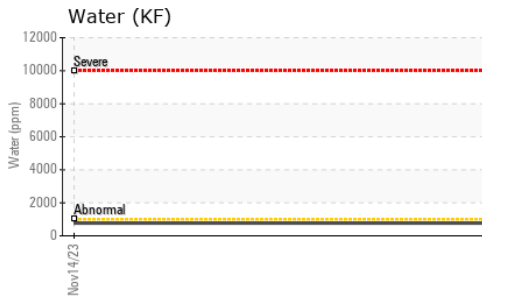
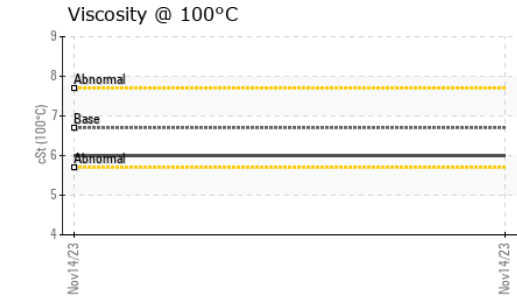
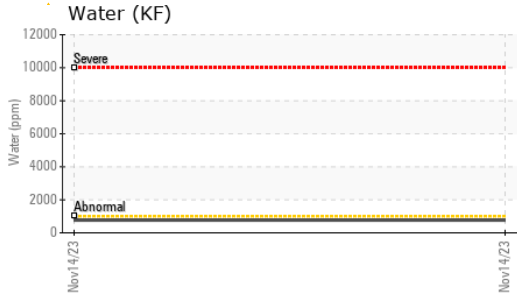
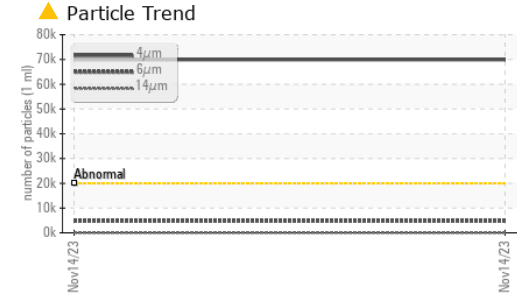
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>20	1	---	---
Sodium ppm ASTM D5185(m)		<1	---	---
Potassium ppm ASTM D5185(m)	>20	0	---	---
Water % ASTM D6304*	>0.1	0.076	---	---
ppm Water ppm ASTM D6304*	>1000	769	---	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>20000	▲ 69920	---	---
Particles >6µm ASTM D7647	>5000	4790	---	---
Particles >14µm ASTM D7647	>640	30	---	---
Particles >21µm ASTM D7647	>160	5	---	---
Particles >38µm ASTM D7647	>40	1	---	---
Particles >71µm ASTM D7647	>10	1	---	---
Oil Cleanliness ISO 4406 (c)	>21/19/16	▲ 23/19/12	---	---

OIL ANALYSIS REPORT



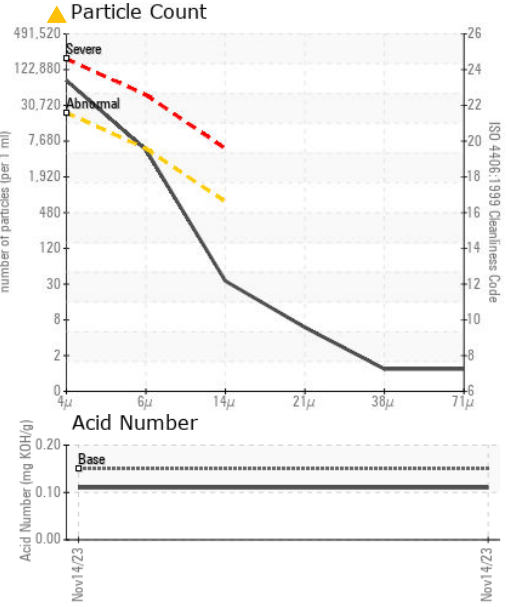
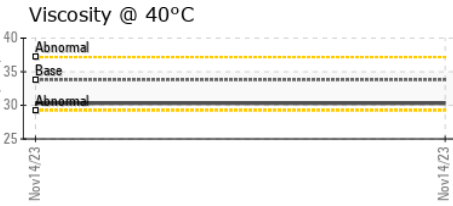
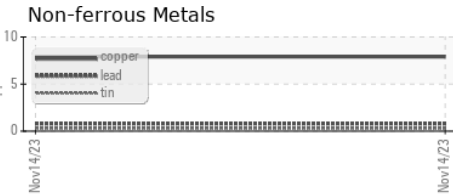
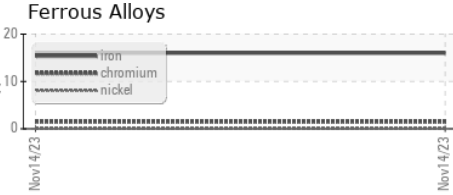
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.15	0.11	---	---

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	LIGHT	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	WGOIL	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.1	.2%	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	33.8	30.3	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	6	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	160	148	---	---

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. : PC0070368 **Received** : 21 Nov 2023
Lab Number : **02597909** **Diagnosed** : 28 Nov 2023
Unique Number : 5682989 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: KF, 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.