



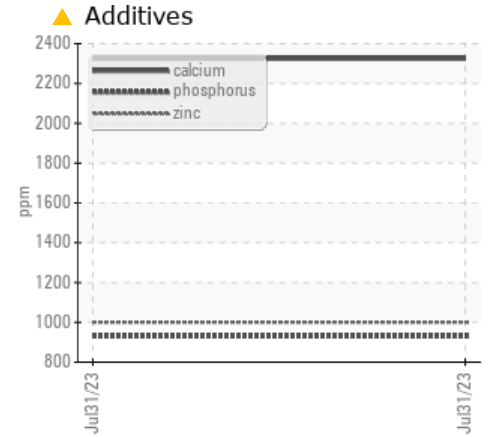
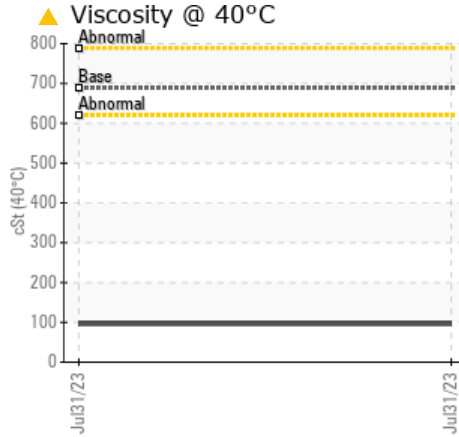
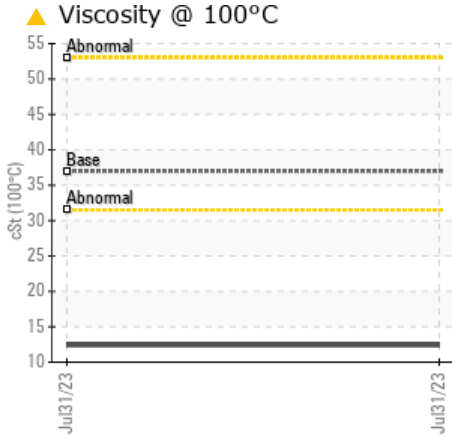
Machine Id  
**TREUIL**

Component  
**Gearbox**

Fluid  
**PETRO CANADA ENDURATEX EP 680 (200 LTR)**



**COMPONENT CONDITION SUMMARY**



**RECOMMENDATION**

Confirm the source of the lubricant being utilized for top-up/fill. Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Veuillez préciser la marque et le modèle du composant lors du prochain échantillon.

**PROBLEMATIC TEST RESULTS**

Sample Status				<b>ABNORMAL</b>	---	---
Calcium	ppm	ASTM D5185(m)	6	<b>▲ 2325</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	250	<b>▲ 930</b>	---	---
Zinc	ppm	ASTM D5185(m)	2	<b>▲ 1000</b>	---	---
Sulfur	ppm	ASTM D5185(m)	9410	<b>▲ 4090</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	688	<b>▲ 96</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	36.98	<b>▲ 12.4</b>	---	---

Customer Id: WESVAL  
Sample No.: PC0076174  
Lab Number: 02575259  
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

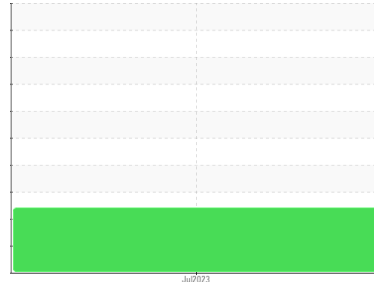
Action	Status	Date	Done By	Description
Information Required	---	---	?	Please specify the component make and model with your next sample.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.

## HISTORICAL DIAGNOSIS

Machine Id  
**TREUIL**

Component  
**Gearbox**

Fluid  
**PETRO CANADA ENDURATEX EP 680 (200 LTR)**



## DIAGNOSIS

### ▲ Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Veuillez préciser la marque et le modèle du composant lors du prochain échantillon.

### Wear

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

### Contamination

La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La propreté du système et du fluide est acceptable.

### ▲ Fluid Condition

La viscosité de l'échantillon se situe dans la portée de l'SAE 20W30; 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'état de l'huile permet d'en prolonger l'utilisation.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0076174</b>	---	---
Sample Date	Client Info		<b>31 Jul 2023</b>	---	---
Machine Age	yrs	Client Info	<b>0</b>	---	---
Oil Age	yrs	Client Info	<b>1</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >200	<b>2</b>	---	---
Chromium	ppm	ASTM D5185(m) >10	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m) >25	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185(m) >50	<b>19</b>	---	---
Copper	ppm	ASTM D5185(m) >200	<b>1</b>	---	---
Tin	ppm	ASTM D5185(m) >10	<b>0</b>	---	---
Antimony	ppm	ASTM D5185(m) >5	<b>0</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) 55	<b>89</b>	---	---
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m) 0	<b>13</b>	---	---
Calcium	ppm	ASTM D5185(m) 6	<b>▲ 2325</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 250	<b>▲ 930</b>	---	---
Zinc	ppm	ASTM D5185(m) 2	<b>▲ 1000</b>	---	---
Sulfur	ppm	ASTM D5185(m) 9410	<b>▲ 4090</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	<b>9</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	---	---

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>6014</b>	---	---
Particles >6µm	ASTM D7647	>5000	<b>837</b>	---	---
Particles >14µm	ASTM D7647	>640	<b>45</b>	---	---
Particles >21µm	ASTM D7647	>160	<b>12</b>	---	---
Particles >38µm	ASTM D7647	>40	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>20/17/13</b>	---	---

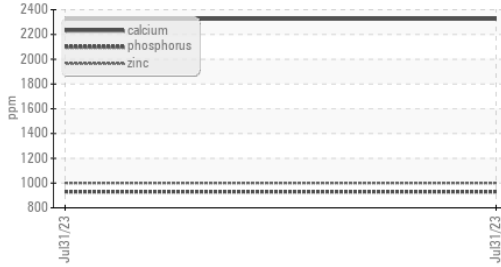
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.59	<b>1.11</b>	---	---

# OIL ANALYSIS REPORT

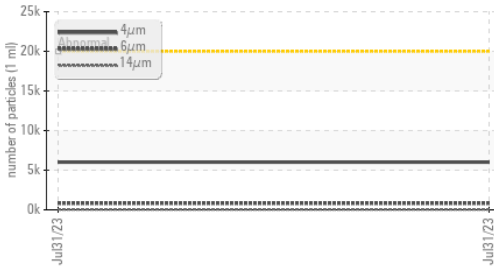
## ▲ Viscosity @ 100°C



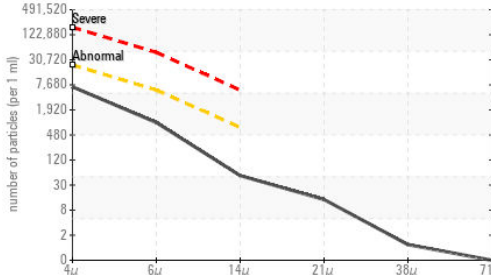
## ▲ Additives



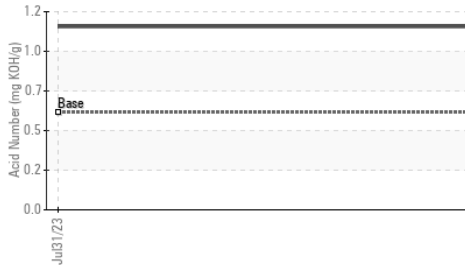
## ● Particle Trend



## Particle Count



## Acid Number



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*	>0.2	<b>NEG</b>	---
Free Water	scalar	Visual*		<b>NEG</b>	---

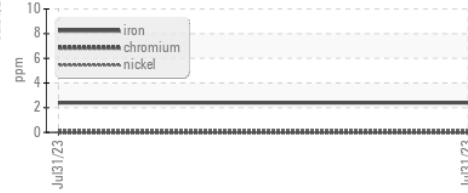
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	688	▲ 96	---
Visc @ 100°C	cSt	ASTM D7279(m)	36.98	▲ 12.4	---
Viscosity Index (VI)	Scale	ASTM D2270*	88	122	---

## SAMPLE IMAGES

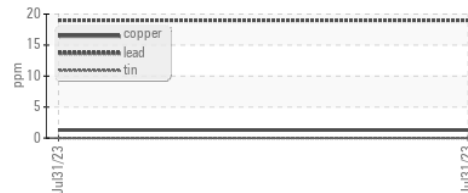
method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

## GRAPHS

### Ferrous Alloys



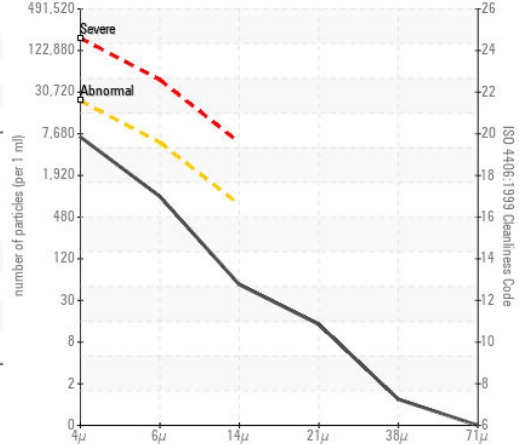
### Non-ferrous Metals



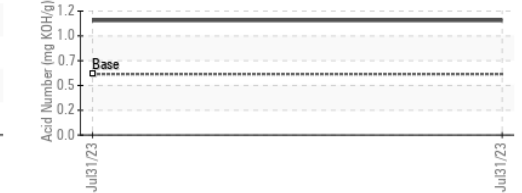
## ▲ Viscosity @ 40°C



### Particle Count



### Acid Number



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0076174 **Received** : 10 Aug 2023  
**Lab Number** : 02575259 **Diagnosed** : 11 Aug 2023  
**Unique Number** : 5620310 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: KV100, PrtCount, VI )

**WESDOME KIENA MINE**  
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 VAL-D'OR, QC  
 CA J0P 4P3  
 Contact: Michel Larose  
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 T:  
 F: (819)738-5452

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.