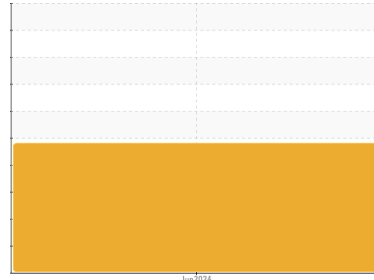


# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Area  
**1002-ELEVATOR-WORK HOUSE-HEAD HOUSE**  
 Machine Id  
**24581-ELEVATOR WORK HOUSE JACK LEG E-1252**  
 Component  
**Gearbox**  
 Fluid  
**PETRO CANADA ENDURATEX EP 220 (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Appearance is unacceptable Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil.

### Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within ISO 100 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0115153</b>	---	---
Sample Date	Client Info	<b>10 Jun 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>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	<b>62</b>	---	---
Iron	ppm ASTM D5185m >200	<b>41</b>	---	---
Chromium	ppm ASTM D5185m >15	<b>0</b>	---	---
Nickel	ppm ASTM D5185m >15	<b>0</b>	---	---
Titanium	ppm ASTM D5185m	<b>0</b>	---	---
Silver	ppm ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm ASTM D5185m >25	<b>&lt;1</b>	---	---
Lead	ppm ASTM D5185m >100	<b>7</b>	---	---
Copper	ppm ASTM D5185m >200	<b>2</b>	---	---
Tin	ppm ASTM D5185m >25	<b>0</b>	---	---
Vanadium	ppm ASTM D5185m	<b>0</b>	---	---
Cadmium	ppm ASTM D5185m	<b>&lt;1</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 60	<b>8</b>	---	---
Barium	ppm ASTM D5185m 0	<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m 0	<b>0</b>	---	---
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	---	---
Magnesium	ppm ASTM D5185m 0	<b>31</b>	---	---
Calcium	ppm ASTM D5185m 0	<b>52</b>	---	---
Phosphorus	ppm ASTM D5185m 270	<b>331</b>	---	---
Zinc	ppm ASTM D5185m 0	<b>380</b>	---	---
Sulfur	ppm ASTM D5185m 11200	<b>1292</b>	---	---

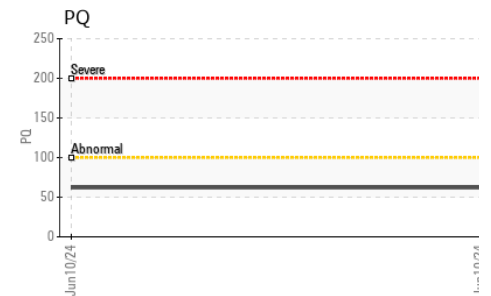
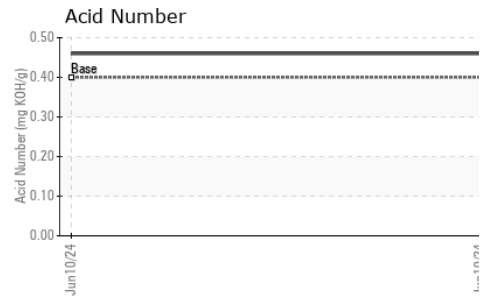
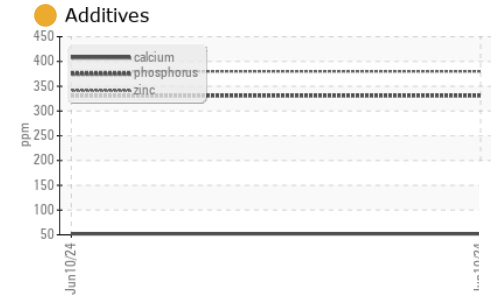
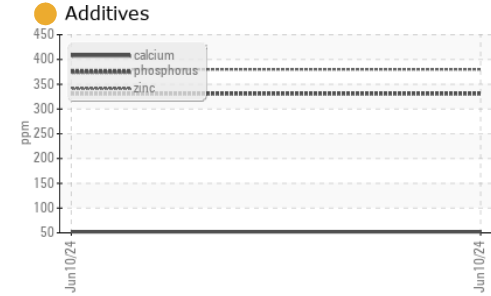
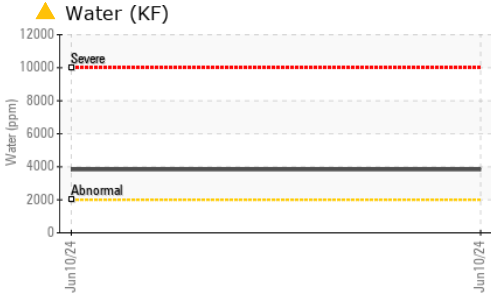
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	<b>3</b>	---	---
Sodium	ppm ASTM D5185m	<b>2</b>	---	---
Potassium	ppm ASTM D5185m >20	<b>2</b>	---	---
Water	% ASTM D6304 >0.2	<b>0.383</b>	---	---
ppm Water	ppm ASTM D6304 >2000	<b>3830</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.40	<b>0.46</b>	---	---

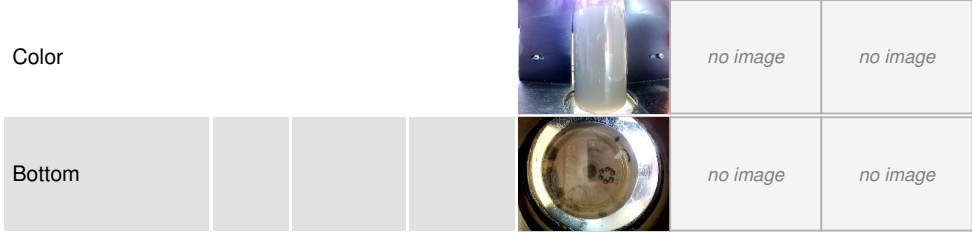
# OIL ANALYSIS REPORT



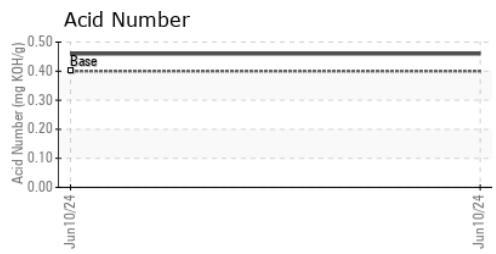
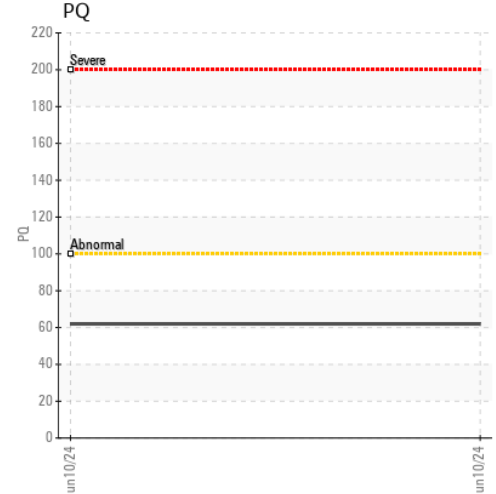
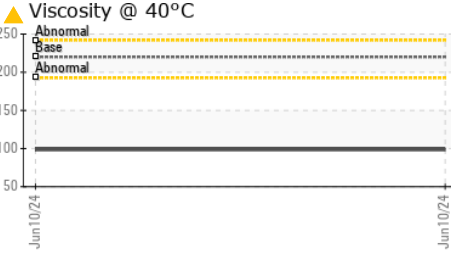
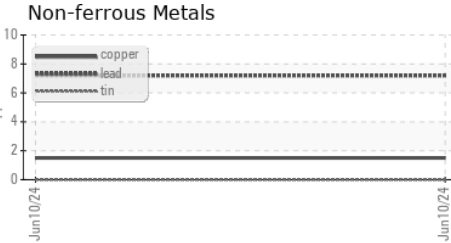
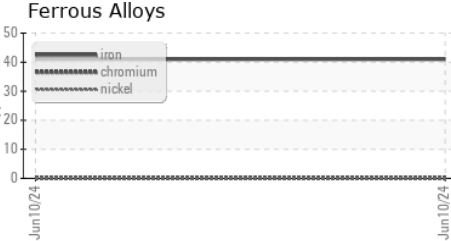
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	MODER	---
Debris	scalar	*Visual	NONE	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	● HAZY	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	▲ 98.7	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0115153      **Received** : 14 Jun 2024  
**Lab Number** : 06210307      **Tested** : 18 Jun 2024  
**Unique Number** : 11083171      **Diagnosed** : 18 Jun 2024 - Angela Borella  
**Test Package** : PLANT ( Additional Tests: KF )

**Ardent Mills-Alton**  
 145 W. Broadway  
 Alton, IL  
 US 62002  
 Contact: Chad Bates  
 Chad.Bates@Ardenmills.com  
 T: (618)416-9155  
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)