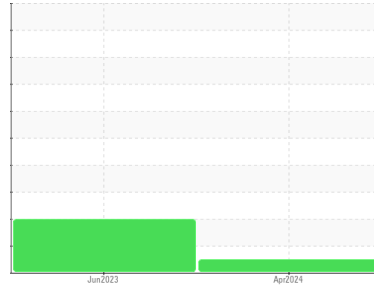


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**KEMP QUARRIES / RIVER VALLEY ARKOMA**  
 Machine Id  
**WL152**  
 Component  
**Front Differential**  
 Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0086966</b>	PCA0086343	---
Sample Date	Client Info		<b>15 Apr 2024</b>	13 Jun 2023	---
Machine Age	hrs	Client Info	<b>31696</b>	31129	---
Oil Age	hrs	Client Info	<b>51</b>	31129	---
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>18</b>	129	---
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	3	---
Lead	ppm	ASTM D5185m >25	<b>2</b>	14	---
Copper	ppm	ASTM D5185m >100	<b>19</b>	▲ 152	---
Tin	ppm	ASTM D5185m >10	<b>1</b>	▲ 12	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>0</b>	3	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	---
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185m 9	<b>17</b>	19	---
Calcium	ppm	ASTM D5185m 3114	<b>3332</b>	3321	---
Phosphorus	ppm	ASTM D5185m 1099	<b>836</b>	1082	---
Zinc	ppm	ASTM D5185m 1245	<b>1000</b>	1273	---
Sulfur	ppm	ASTM D5185m 7086	<b>4358</b>	8317	---

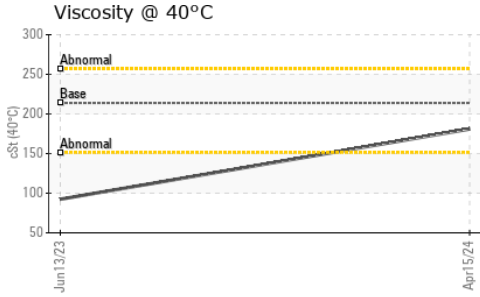
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>10</b>	17	---
Sodium	ppm	ASTM D5185m	<b>0</b>	1	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	1	---

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual >.2	<b>NEG</b>	NEG	---
Free Water	scalar	*Visual	<b>NEG</b>	NEG	---

# OIL ANALYSIS REPORT

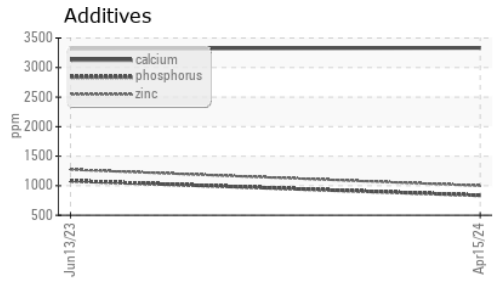
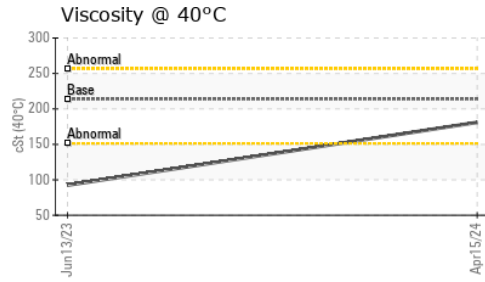
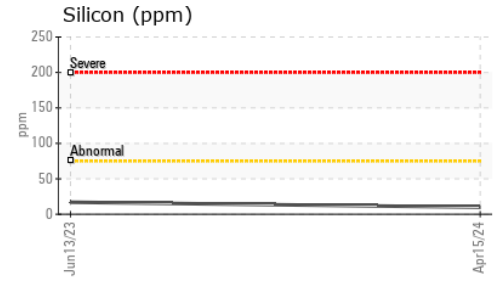
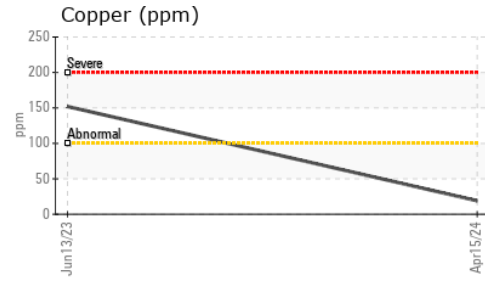
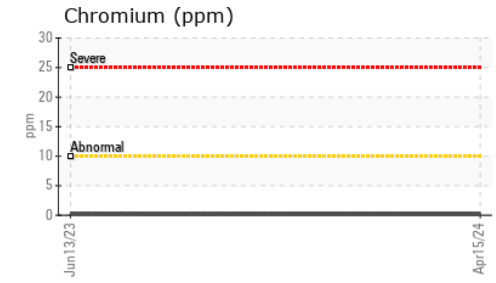
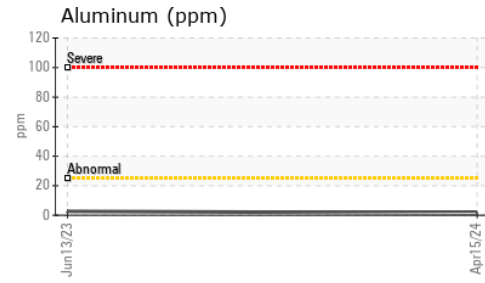
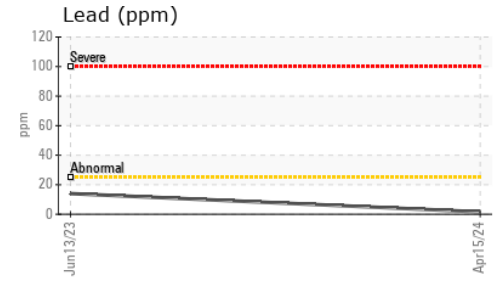
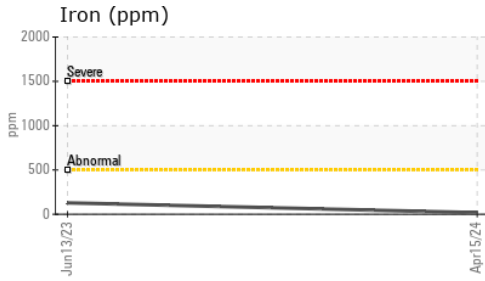


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	213.9	181	92.4	---

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0086966  
**Lab Number** : 06155367  
**Unique Number** : 10990790  
**Test Package** : MOB 1

**Received** : 19 Apr 2024  
**Tested** : 23 Apr 2024  
**Diagnosed** : 23 Apr 2024 - Wes Davis

**Kemp Quarries - River Valley - Arkoma**  
 12971 HWY 9a  
 Shawnee, OK  
 US 74804  
 Contact:  
 arkomashop@kempquarries.net

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)

T:  
F: