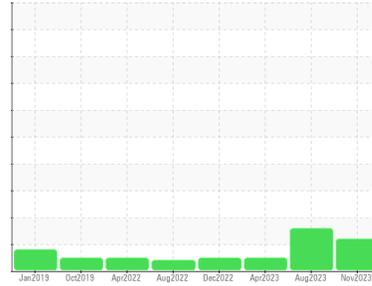


Area  
**KEMP QUARRIES / RIVER VALLEY ARKOMA**  
Machine Id  
**OHT102**  
Component  
**Rear Differential**  
Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### 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>PCA0084421</b>	PCA0083938	PCA0070333
Sample Date	Client Info	<b>06 Nov 2023</b>	22 Aug 2023	20 Apr 2023
Machine Age	hrs	<b>29340</b>	29115	28531
Oil Age	hrs	<b>28531</b>	28531	28531
Oil Changed	Client Info	<b>Not Chngd</b>	Not Chngd	Changed
Sample Status		<b>ATTENTION</b>	ATTENTION	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >500	<b>29</b>	177	152
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	1	0
Lead	ppm	ASTM D5185m >25	<b>0</b>	1	0
Copper	ppm	ASTM D5185m >100	<b>8</b>	84	82
Tin	ppm	ASTM D5185m >10	<b>0</b>	3	3
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 2	<b>1</b>	▲ 35	294
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>1</b>	4	11
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	2	2
Magnesium	ppm	ASTM D5185m 9	<b>6</b>	5	2
Calcium	ppm	ASTM D5185m 3114	<b>2313</b>	▲ 3627	27
Phosphorus	ppm	ASTM D5185m 1099	▲ <b>597</b>	948	999
Zinc	ppm	ASTM D5185m 1245	▲ <b>727</b>	▲ 1118	15
Sulfur	ppm	ASTM D5185m 7086	▲ <b>3402</b>	▲ 6237	19973

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >75	<b>13</b>	18	8
Sodium	ppm	ASTM D5185m	<b>0</b>	1	<1
Potassium	ppm	ASTM D5185m >20	<b>3</b>	2	<1

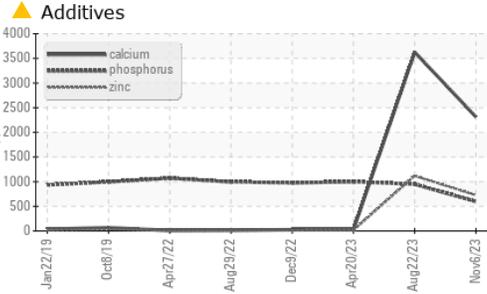
## VISUAL

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

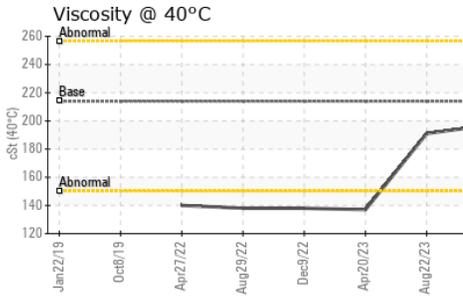
## FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445 213.9	<b>197</b>	191	137

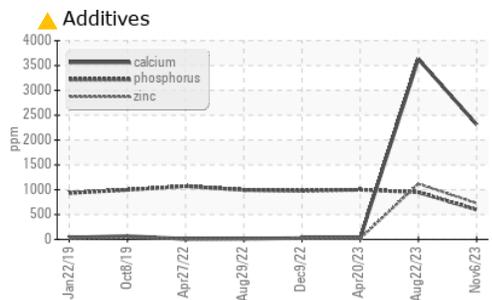
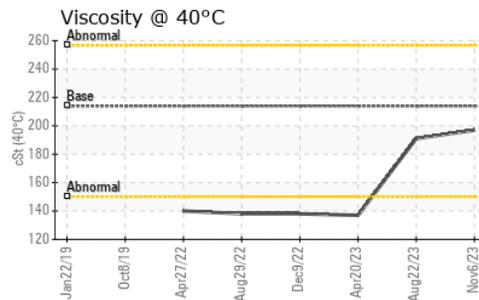
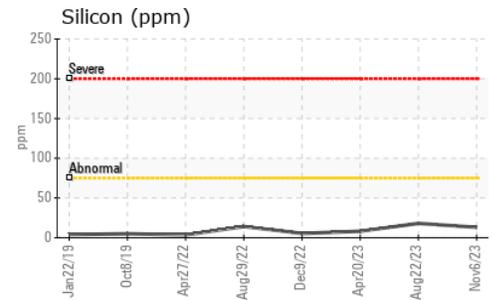
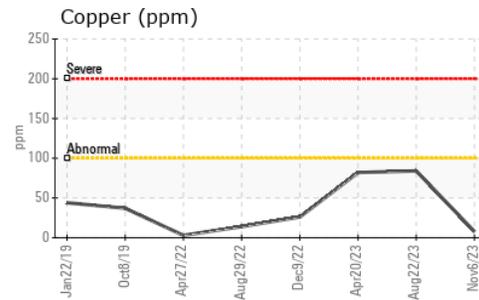
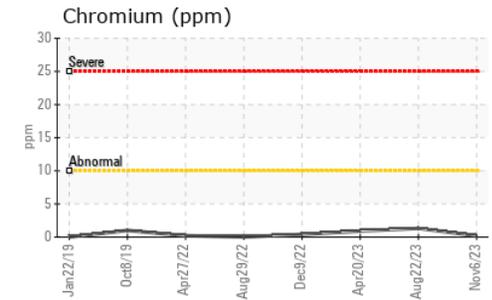
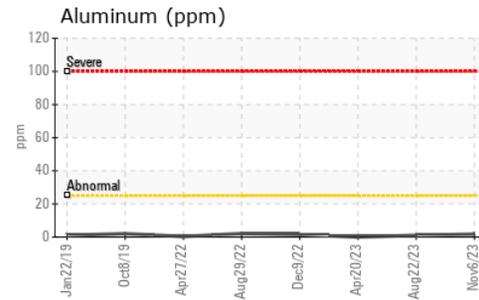
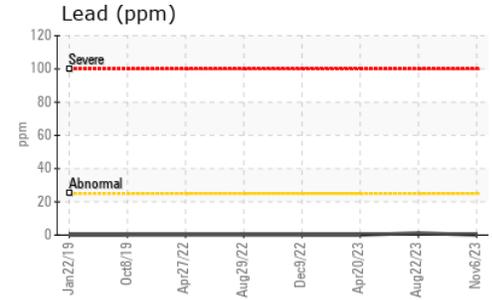
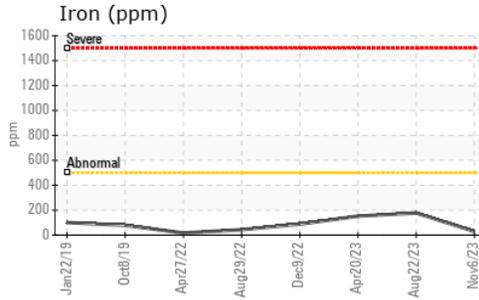
# OIL ANALYSIS REPORT



SAMPLE IMAGES	method	limit/base	current	history1	history2
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.** : PCA0084421  
**Lab Number** : 06007920  
**Unique Number** : 10741682  
**Test Package** : MOB 1

**Kemp Quarries - River Valley - Arkoma**  
 12971 HWY 9a  
 Shawnee, OK  
 US 74804

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)

Contact: arkomashop@kempquarries.net

T:

F: