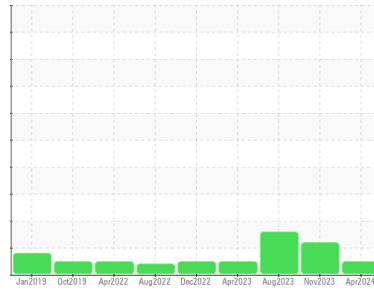


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



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>PCA0034663</b>	PCA0084421	PCA0083938
Sample Date	Client Info		<b>03 Apr 2024</b>	06 Nov 2023	22 Aug 2023
Machine Age	hrs	Client Info	<b>29902</b>	29340	29115
Oil Age	hrs	Client Info	<b>28531</b>	28531	28531
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>NORMAL</b>	ATTENTION	ATTENTION

**CONTAMINATION**

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

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>118</b>	29	177
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m >10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	2	1
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	1
Copper	ppm	ASTM D5185m >100	<b>54</b>	8	84
Tin	ppm	ASTM D5185m >10	<b>2</b>	0	3
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	<1

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>2</b>	1	35
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>3</b>	1	4
Manganese	ppm	ASTM D5185m 0	<b>2</b>	<1	2
Magnesium	ppm	ASTM D5185m 9	<b>7</b>	6	5
Calcium	ppm	ASTM D5185m 3114	<b>2398</b>	2313	3627
Phosphorus	ppm	ASTM D5185m 1099	<b>644</b>	597	948
Zinc	ppm	ASTM D5185m 1245	<b>752</b>	727	1118
Sulfur	ppm	ASTM D5185m 7086	<b>3443</b>	3402	6237

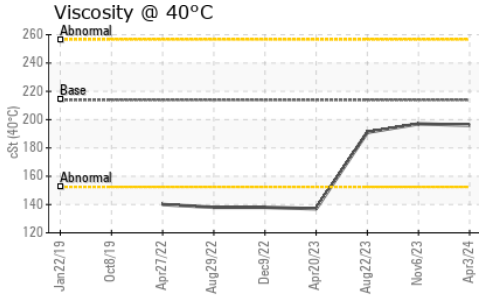
**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>26</b>	13	18
Sodium	ppm	ASTM D5185m	<b>3</b>	0	1
Potassium	ppm	ASTM D5185m >20	<b>0</b>	3	2

**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	NONE
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

# OIL ANALYSIS REPORT

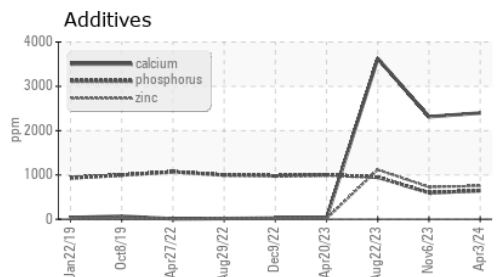
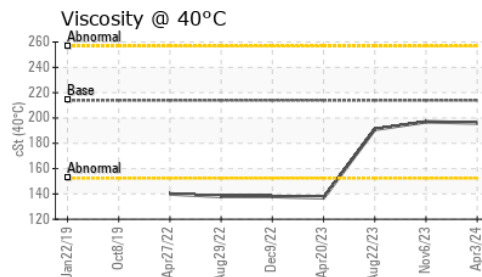
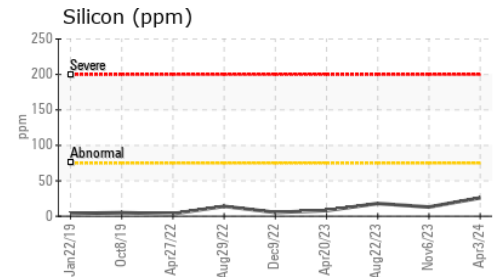
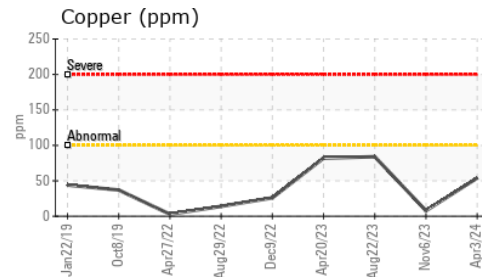
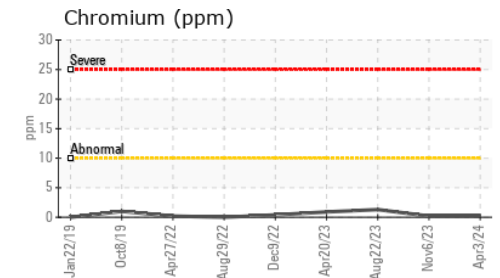
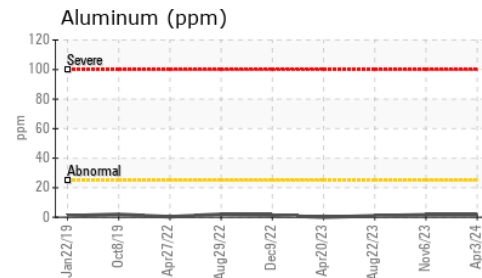
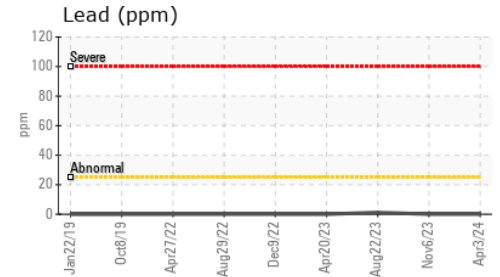
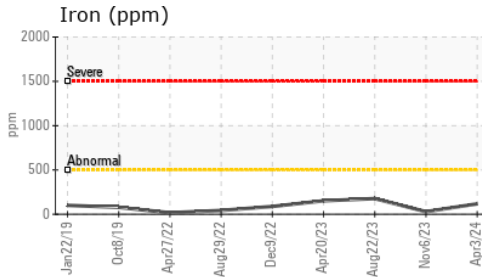


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213.9	<b>196</b>	197	191

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.** : PCA0034663  
**Lab Number** : **06142540**  
**Unique Number** : 10967348  
**Test Package** : MOB 1

**Received** : 08 Apr 2024  
**Tested** : 09 Apr 2024  
**Diagnosed** : 11 Apr 2024 - Don Baldrige

**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)