

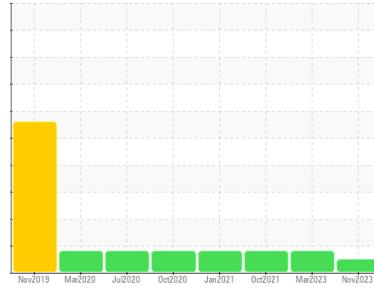
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**KEMP QUARRIES / BCS - MILL CREEK [64677]**  
Machine Id  
**OHT103**  
Component  
**Transmission (Manual)**  
Fluid  
**PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: PM-1 sampled fluid )

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the fluid.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0070613</b>	PCA0086025	PCA0048614
Sample Date	Client Info		<b>29 Nov 2023</b>	15 Mar 2023	25 Oct 2021
Machine Age	hrs	Client Info	<b>2855</b>	2517	2050
Oil Age	hrs	Client Info	<b>2855</b>	2517	2050
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	Not Chngd
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>11</b>	21	17
Chromium	ppm	ASTM D5185m >5	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m >5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m >7	<b>0</b>	0	1
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	3	3
Lead	ppm	ASTM D5185m >45	<b>3</b>	2	1
Copper	ppm	ASTM D5185m >225	<b>156</b>	▲ 407	▲ 431
Tin	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185m	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>7</b>	6	0
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>1</b>	3	2
Manganese	ppm	ASTM D5185m 9	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m 1	<b>23</b>	40	39
Calcium	ppm	ASTM D5185m 3131	<b>2431</b>	3004	2859
Phosphorus	ppm	ASTM D5185m 1194	<b>929</b>	1102	997
Zinc	ppm	ASTM D5185m 1281	<b>1058</b>	1268	1173
Sulfur	ppm	ASTM D5185m 3811	<b>3613</b>	5206	3581

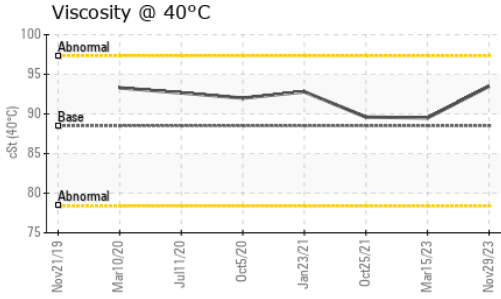
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >125	<b>10</b>	11	6
Sodium	ppm	ASTM D5185m	<b>1</b>	4	2
Potassium	ppm	ASTM D5185m >20	<b>0</b>	<1	0

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	VLITE
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 >0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

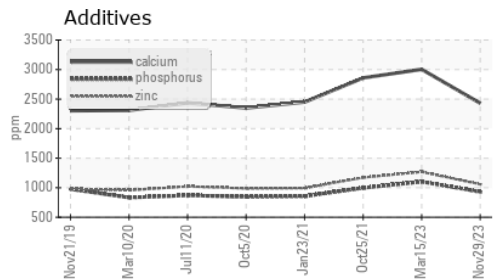
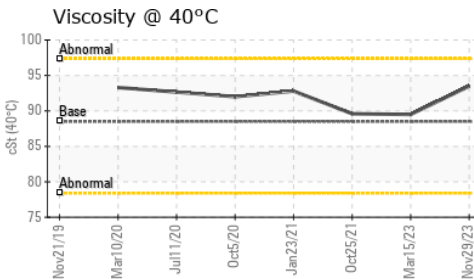
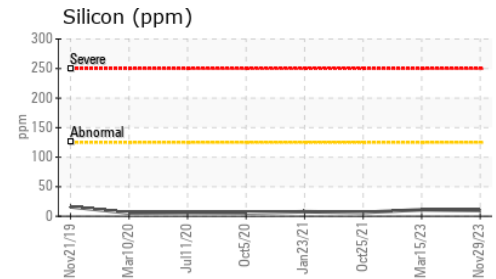
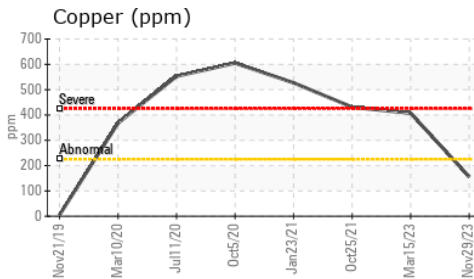
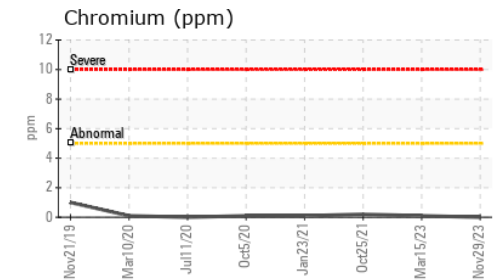
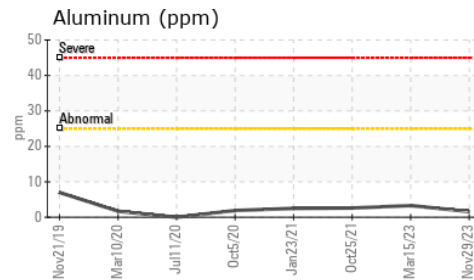
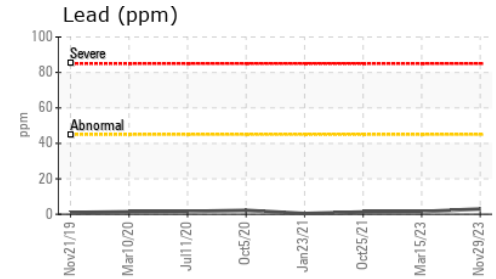
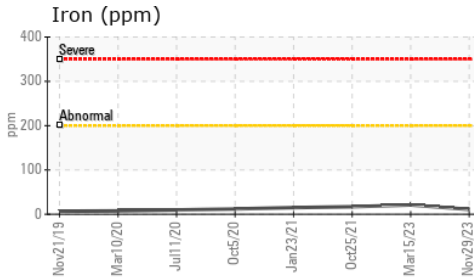
# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	88.5	<b>93.5</b>	89.5	89.6

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.** : PCA0070613 **Received** : 12 Dec 2023  
**Lab Number** : **06032967** **Diagnosed** : 15 Dec 2023  
**Unique Number** : 10782758 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 1

**Kemp Quarries - BCS-Mill Creek**  
 609 Lazy E Rd  
 Noel, MO  
 US 64854  
 Contact: TRAVIS ELLIS  
 tellis@kempquarries.com

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)

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F: