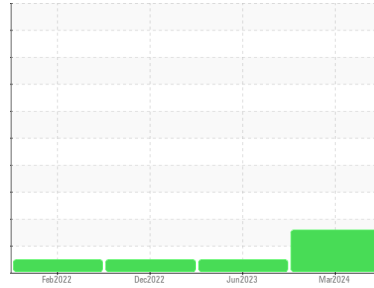


# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Area  
**KEMP QUARRIES / BCS - STILLWELL [66212]**  
 Machine Id  
**WL090**  
 Component  
**Transmission (Manual)**  
 Fluid  
**PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: PM-3 sampled fluid )

### Wear

All component wear rates are normal.

### Contamination

There is a light concentration of water present 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>PCA0109326</b>	PCA0086381	PCA0061840
Sample Date	Client Info	<b>25 Mar 2024</b>	30 Jun 2023	02 Dec 2022
Machine Age	hrs	<b>23090</b>	22640	22251
Oil Age	hrs	<b>23090</b>	22640	0
Oil Changed	Client Info	<b>N/A</b>	Changed	Not Chngd
Sample Status		<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >200	<b>6</b>	5	7
Chromium	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >7	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >25	<b>3</b>	2	<1
Lead	ppm	ASTM D5185m >45	<b>1</b>	0	<1
Copper	ppm	ASTM D5185m >225	<b>2</b>	3	3
Tin	ppm	ASTM D5185m >10	<b>1</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 2	<b>2</b>	1	3
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>9</b>	12	8
Manganese	ppm	ASTM D5185m 9	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 1	<b>111</b>	186	118
Calcium	ppm	ASTM D5185m 3131	<b>2633</b>	2220	2398
Phosphorus	ppm	ASTM D5185m 1194	<b>964</b>	929	922
Zinc	ppm	ASTM D5185m 1281	<b>1119</b>	1136	1117
Sulfur	ppm	ASTM D5185m 3811	<b>3842</b>	4418	4671

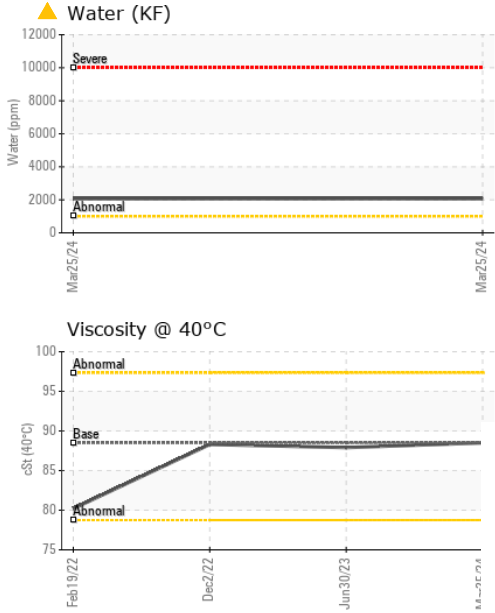
## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >125	<b>7</b>	4	16
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	0
Potassium	ppm	ASTM D5185m >20	<b>2</b>	2	<1
Water	%	ASTM D6304 >0.1	<b>▲ 0.207</b>	---	---
ppm Water	ppm	ASTM D6304 >1000	<b>▲ 2070</b>	---	---

## 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 >0.1	<b>0.2%</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

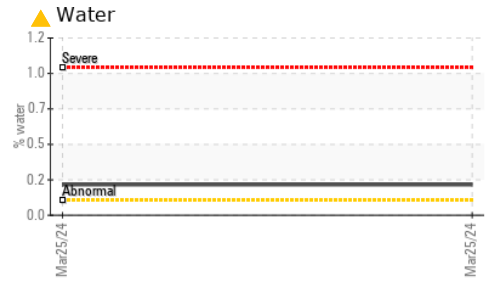
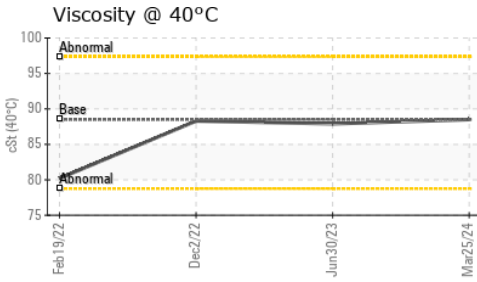
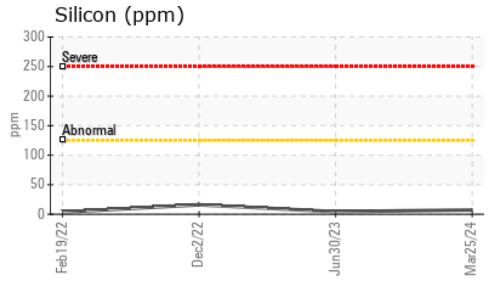
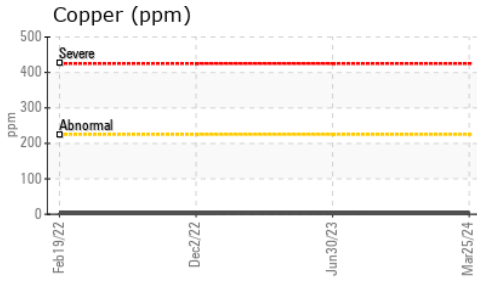
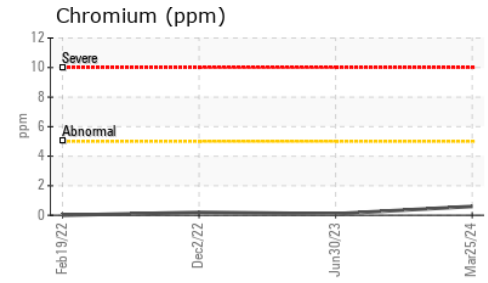
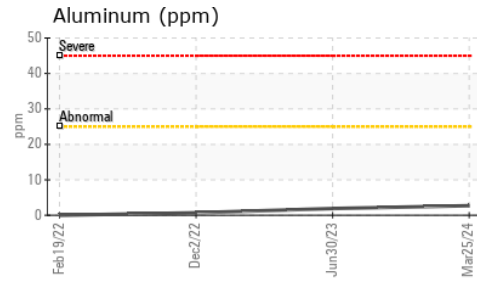
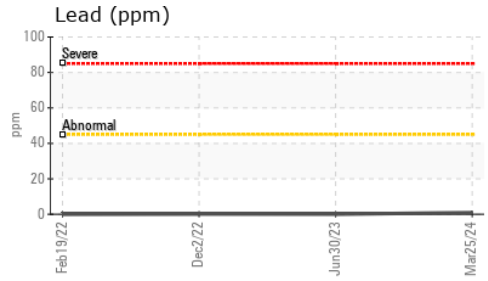
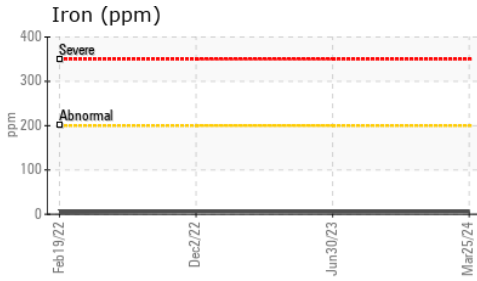
# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	88.5	<b>88.5</b>	87.9	88.3

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109326  
**Lab Number** : 06135340  
**Unique Number** : 10954805  
**Test Package** : MOB 1 ( Additional Tests: KF )

**Received** : 01 Apr 2024  
**Tested** : 04 Apr 2024  
**Diagnosed** : 04 Apr 2024 - Jonathan Hester

**Kemp Quarries - Benton County Stone - Stillwell**  
 463917 Highway 100  
 Bunch, OK  
 US 74931

Contact: stilwell@bentoncountystone.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)

T:  
F: