



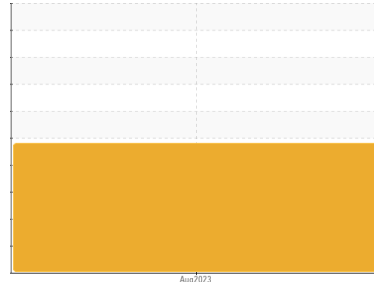
# OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area  
**KEMP QUARRIES / PRYOR STONE**  
 Machine Id  
**WL095**  
 Component  
**Left Final Drive**  
 Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**



## DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: PM-4 changed fluid )

### Wear

Gear wear is indicated. All other metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0086414</b>	---	---
Sample Date	Client Info	<b>02 Aug 2023</b>	---	---
Machine Age	hrs Client Info	<b>2544</b>	---	---
Oil Age	hrs Client Info	<b>2544</b>	---	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >800	<b>▲ 1735</b>	---	---
Chromium ppm	ASTM D5185m >10	<b>▲ 32</b>	---	---
Nickel ppm	ASTM D5185m >5	<b>2</b>	---	---
Titanium ppm	ASTM D5185m >15	<b>2</b>	---	---
Silver ppm	ASTM D5185m >2	<b>0</b>	---	---
Aluminum ppm	ASTM D5185m >75	<b>25</b>	---	---
Lead ppm	ASTM D5185m >10	<b>0</b>	---	---
Copper ppm	ASTM D5185m >75	<b>23</b>	---	---
Tin ppm	ASTM D5185m >8	<b>&lt;1</b>	---	---
Vanadium ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium ppm	ASTM D5185m	<b>&lt;1</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 2	<b>▲ 393</b>	---	---
Barium ppm	ASTM D5185m 0	<b>6</b>	---	---
Molybdenum ppm	ASTM D5185m 0	<b>0</b>	---	---
Manganese ppm	ASTM D5185m 0	<b>▲ 23</b>	---	---
Magnesium ppm	ASTM D5185m 9	<b>▲ 861</b>	---	---
Calcium ppm	ASTM D5185m 3114	<b>▲ 138</b>	---	---
Phosphorus ppm	ASTM D5185m 1099	<b>▲ 1514</b>	---	---
Zinc ppm	ASTM D5185m 1245	<b>▲ 131</b>	---	---
Sulfur ppm	ASTM D5185m 7086	<b>▲ 24618</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >400	<b>119</b>	---	---
Sodium ppm	ASTM D5185m	<b>16</b>	---	---
Potassium ppm	ASTM D5185m >20	<b>9</b>	---	---

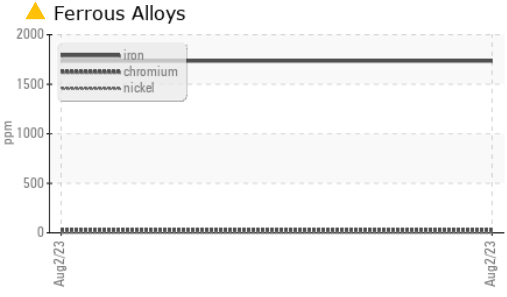
## VISUAL

method	limit/base	current	history1	history2
White Metal scalar	*Visual NONE	<b>NONE</b>	---	---
Yellow Metal scalar	*Visual NONE	<b>NONE</b>	---	---
Precipitate scalar	*Visual NONE	<b>NONE</b>	---	---
Silt scalar	*Visual NONE	<b>NONE</b>	---	---
Debris scalar	*Visual NONE	<b>NONE</b>	---	---
Sand/Dirt scalar	*Visual NONE	<b>NONE</b>	---	---
Appearance scalar	*Visual NORML	<b>NORML</b>	---	---
Odor scalar	*Visual NORML	<b>NORML</b>	---	---
Emulsified Water scalar	*Visual >0.2	<b>NEG</b>	---	---
Free Water scalar	*Visual	<b>NEG</b>	---	---

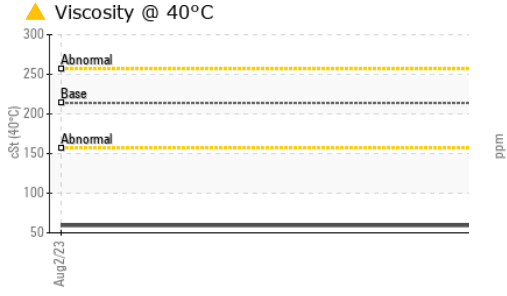
## FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D445 213.9	<b>▲ 59.3</b>	---	---

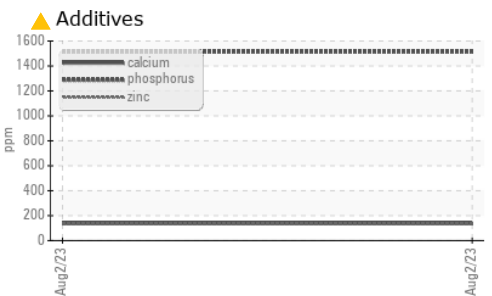
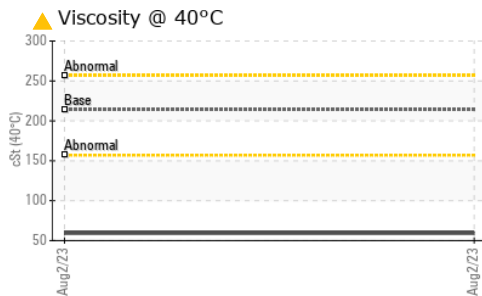
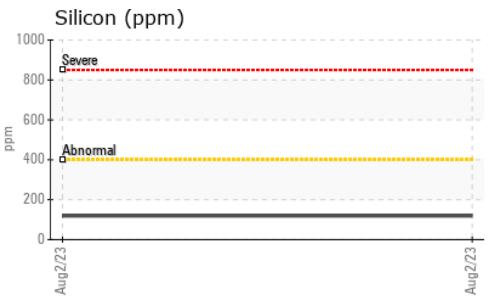
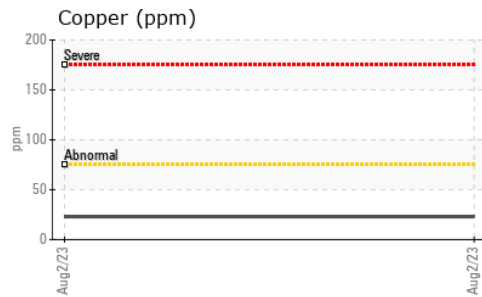
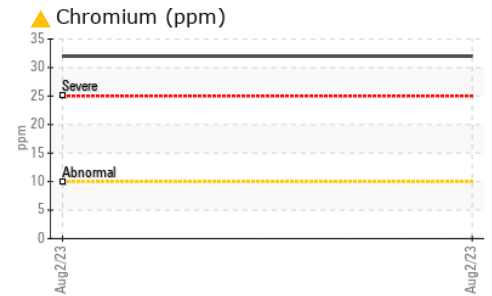
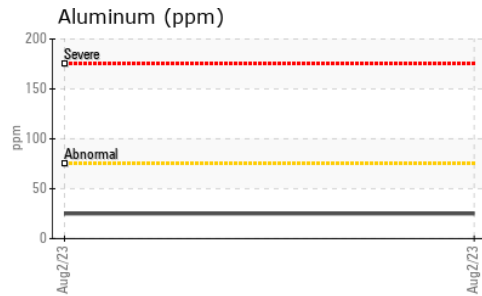
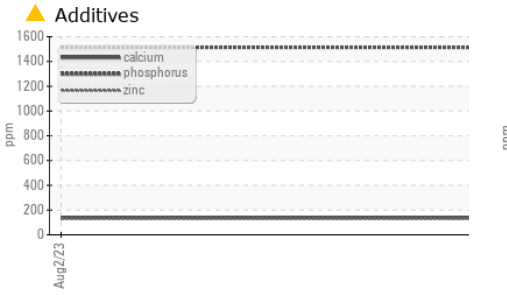
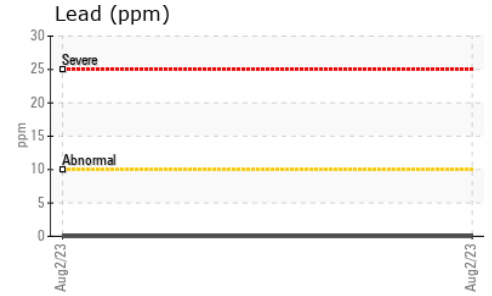
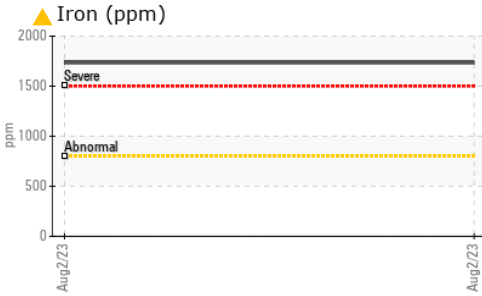
# OIL ANALYSIS REPORT



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



**GRAPHS**



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0086414 **Received** : 16 Aug 2023  
**Lab Number** : 05926892 **Diagnosed** : 18 Aug 2023  
**Unique Number** : 10606839 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 1

**Kemp Quarries - Pryor Stone - Pryor**  
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 Pryor, OK  
 US 74361  
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 pryor@pryorstone.com  
 T:  
 F:

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)