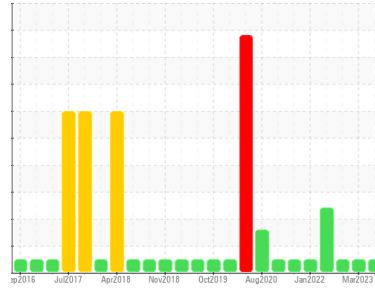


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**KEMP QUARRIES / NEOSHO**  
Machine Id  
**WL111**  
Component  
**Rear Differential**  
Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**

## DIAGNOSIS

### Recommendation

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 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	history 1	history 2
Sample Number	Client Info		<b>PCA0086321</b>	PCA0086040	PCA0037718
Sample Date	Client Info		<b>19 Jun 2023</b>	21 Mar 2023	01 Jul 2022
Machine Age	hrs	Client Info	<b>29243</b>	28833	28351
Oil Age	hrs	Client Info	<b>29243</b>	28833	28351
Oil Changed	Client Info		<b>N/A</b>	N/A	Not Changd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >500	<b>152</b>	130	113
Chromium	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m >3	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >30	<b>&lt;1</b>	1	2
Lead	ppm	ASTM D5185m >13	<b>&lt;1</b>	2	1
Copper	ppm	ASTM D5185m >103	<b>54</b>	48	37
Tin	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m 2	<b>0</b>	0	3
Barium	ppm	ASTM D5185m 0	<b>14</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m 0	<b>1</b>	2	1
Magnesium	ppm	ASTM D5185m 9	<b>30</b>	20	14
Calcium	ppm	ASTM D5185m 3114	<b>3619</b>	3355	3191
Phosphorus	ppm	ASTM D5185m 1099	<b>1105</b>	983	915
Zinc	ppm	ASTM D5185m 1245	<b>1389</b>	1284	1114
Sulfur	ppm	ASTM D5185m 7086	<b>5364</b>	4733	4555

## CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >100	<b>16</b>	13	12
Sodium	ppm	ASTM D5185m	<b>1</b>	<1	2
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	0

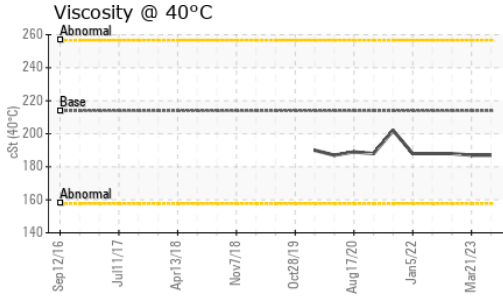
## VISUAL

	method	limit/base	current	history 1	history 2
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

## FLUID PROPERTIES

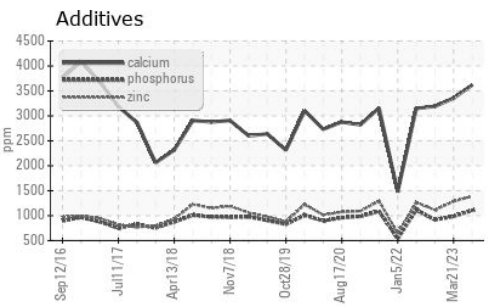
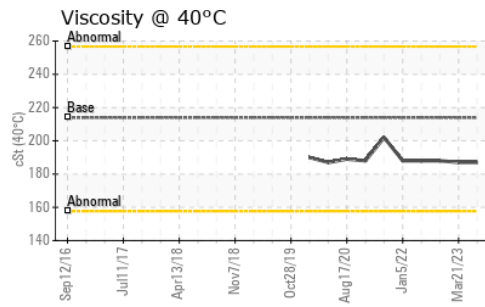
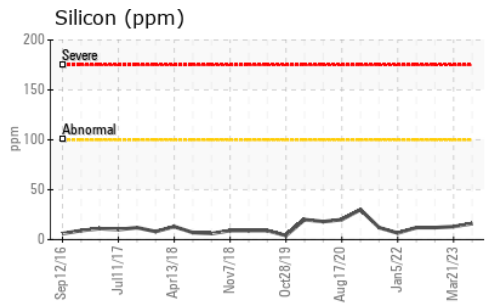
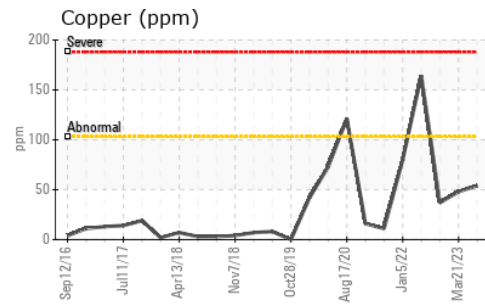
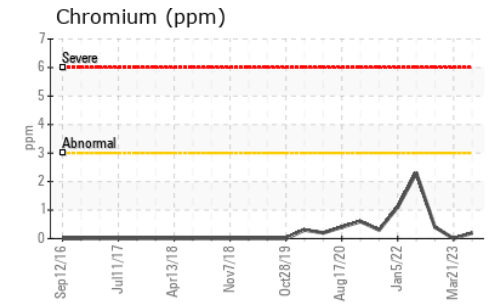
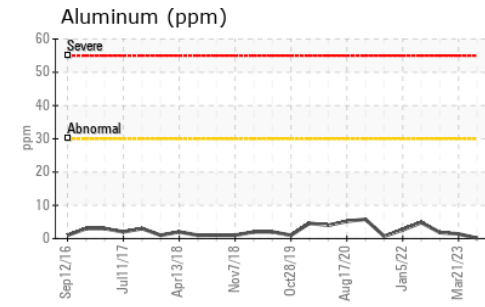
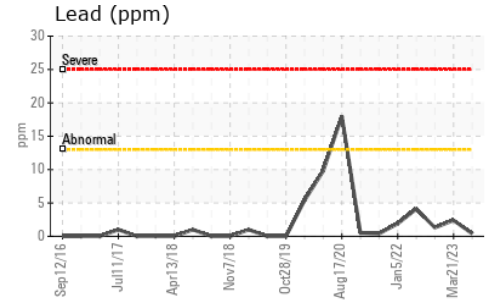
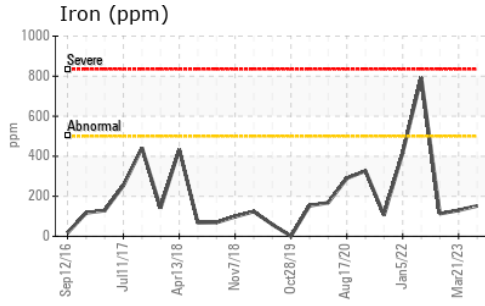
	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445 213.9	<b>187</b>	187	188

# OIL ANALYSIS REPORT



SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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.** : PCA0086321 **Received** : 30 Jun 2023  
**Lab Number** : 05888547 **Diagnosed** : 05 Jul 2023  
**Unique Number** : 10539030 **Diagnostician** : Sean Felton  
**Test Package** : MOB 1

**Kemp Quarries - Kemp Stone - Neosho**  
 19148 Ingersol Lane  
 Neosho, MO  
 US 64850  
 Contact:  
 neosho@kempstone.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: