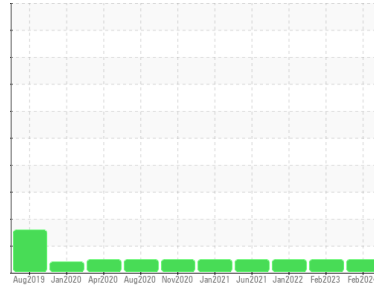


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**KEMP QUARRIES / NEOSHO [67516]**  
 Machine Id  
**WL132**  
 Component  
**Gear Drive**  
 Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: PM-4 changed fluid )

### Wear

All component wear rates are normal.

### Contamination

The water content is negligible. 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>PCA0086541</b>	PCA0086694	PCA0049217
Sample Date	Client Info	<b>27 Feb 2024</b>	08 Feb 2023	05 Jan 2022
Machine Age	hrs	<b>3743</b>	3228	2640
Oil Age	hrs	<b>3743</b>	3228	2640
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >500	<b>45</b>	83	100
Chromium	ppm ASTM D5185m >5	<b>0</b>	<1	<1
Nickel	ppm ASTM D5185m >8	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	<b>0</b>	<1	<1
Silver	ppm ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >20	<b>2</b>	2	3
Lead	ppm ASTM D5185m >20	<b>0</b>	0	0
Copper	ppm ASTM D5185m >500	<b>&lt;1</b>	1	3
Tin	ppm ASTM D5185m >75	<b>&lt;1</b>	0	0
Antimony	ppm ASTM D5185m >5	<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>8</b>	42	95
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 0	<b>0</b>	<1	1
Manganese	ppm ASTM D5185m 0	<b>0</b>	<1	1
Magnesium	ppm ASTM D5185m 9	<b>0</b>	14	13
Calcium	ppm ASTM D5185m 3114	<b>2774</b>	2593	361
Phosphorus	ppm ASTM D5185m 1099	<b>944</b>	1009	833
Zinc	ppm ASTM D5185m 1245	<b>1029</b>	978	308
Sulfur	ppm ASTM D5185m 7086	<b>5997</b>	8942	21241

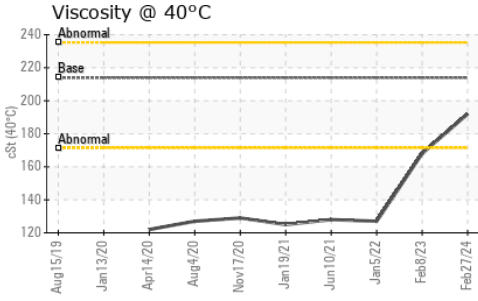
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >35	<b>27</b>	31	25
Sodium	ppm ASTM D5185m	<b>3</b>	0	<1
Potassium	ppm ASTM D5185m >20	<b>0</b>	2	0

## VISUAL

method	limit/base	current	history1	history2
White Metal	scalar *Visual NONE	<b>NONE</b>	MODER	MODER
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 >0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar *Visual	<b>NEG</b>	NEG	NEG

# OIL ANALYSIS REPORT

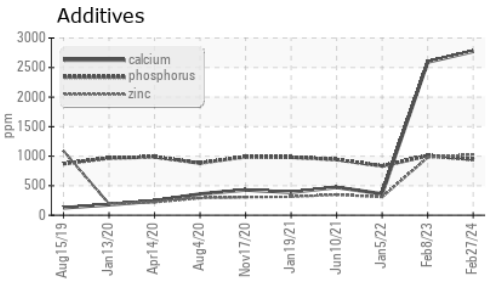
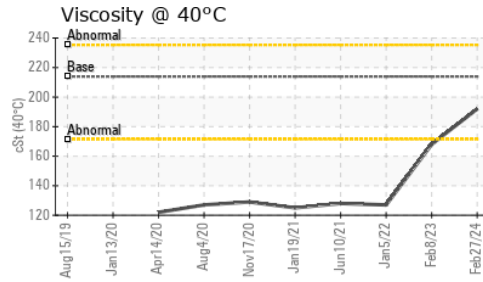
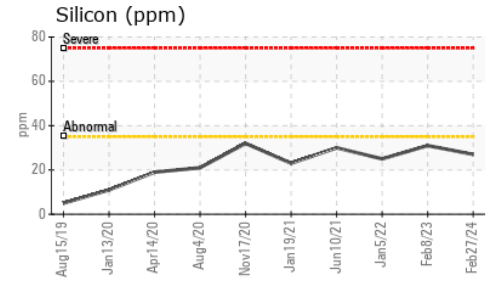
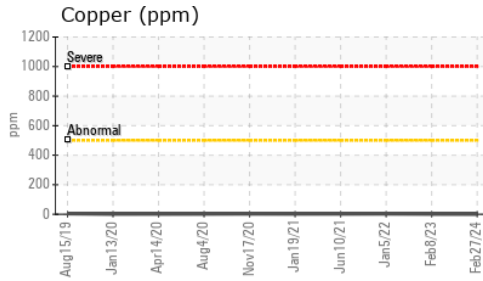
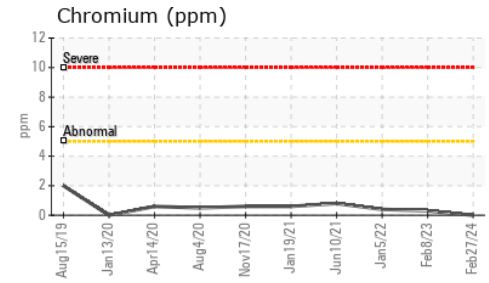
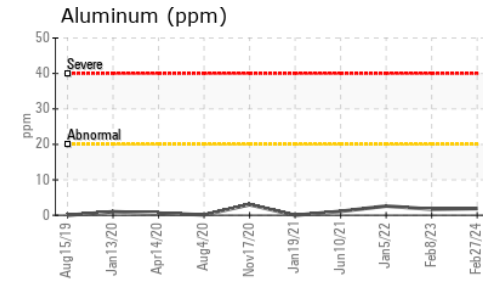
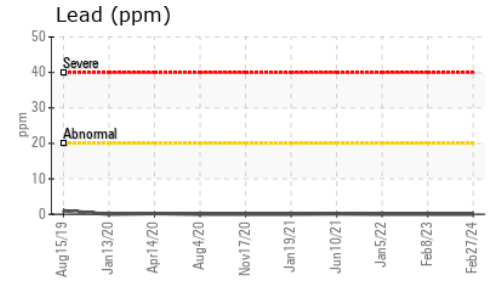
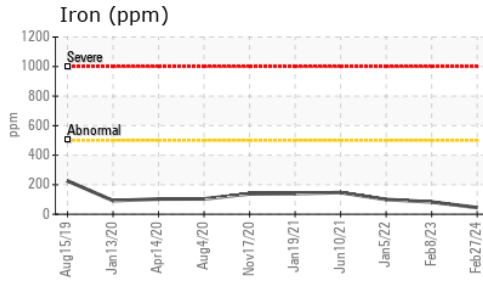


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213.9	192	168

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.** : PCA0086541 **Received** : 11 Mar 2024  
**Lab Number** : 06115482 **Tested** : 12 Mar 2024  
**Unique Number** : 10924315 **Diagnosed** : 13 Mar 2024 - Don Baldrige  
**Test Package** : MOB 1

**Kemp Quarries - Kemp Stone - Neosho**  
 19148 Ingersol Lane  
 Neosho, MO  
 US 64850  
 Contact:

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)

neosho@kempstone.com

T:

F: