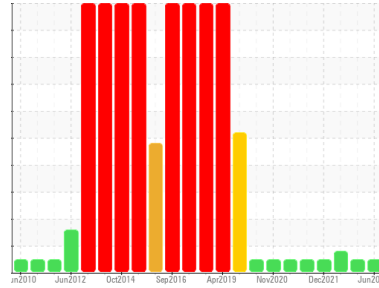


# OIL ANALYSIS REPORT



Area  
**KEMP QUARRIES / MUSKOGEE SAND**  
Machine Id  
**WL039**  
Component  
**Rear Right Final Drive**  
Fluid  
**MOBIL MOBILTRANS HD 50 (--- GAL)**

Sample Rating Trend



**NORMAL**

## DIAGNOSIS

- Recommendation**  
Resample at the next service interval to monitor.
- 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	history1	history2
Sample Number	Client Info	<b>PCA0087129</b>	PCA0062270	PCA0034603
Sample Date	Client Info	<b>15 Jun 2023</b>	28 Apr 2022	17 Feb 2022
Machine Age	hrs	<b>59240</b>	57915	57635
Oil Age	hrs	<b>1605</b>	280	3989
Oil Changed	Client Info	<b>Changed</b>	N/A	Changed
Sample Status		<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >800	<b>49</b>	254	▲ 727
Chromium	ppm	ASTM D5185m >10	<b>0</b>	<1	2
Nickel	ppm	ASTM D5185m >5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m >15	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >75	<b>2</b>	2	5
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	1
Copper	ppm	ASTM D5185m >75	<b>&lt;1</b>	1	7
Tin	ppm	ASTM D5185m >8	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185m >50	<b>---</b>	---	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	<1

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>0</b>	7	23
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	2	8
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	2	5
Magnesium	ppm	ASTM D5185m	<b>13</b>	41	123
Calcium	ppm	ASTM D5185m	<b>3462</b>	3524	2832
Phosphorus	ppm	ASTM D5185m	<b>864</b>	924	1045
Zinc	ppm	ASTM D5185m	<b>1054</b>	1066	1156
Sulfur	ppm	ASTM D5185m	<b>4654</b>	7564	10005

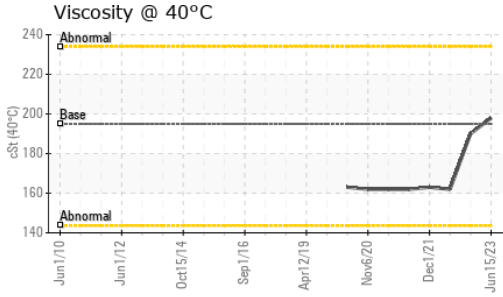
## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >400	<b>14</b>	22	35
Sodium	ppm	ASTM D5185m	<b>0</b>	1	3
Potassium	ppm	ASTM D5185m >20	<b>1</b>	0	0

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

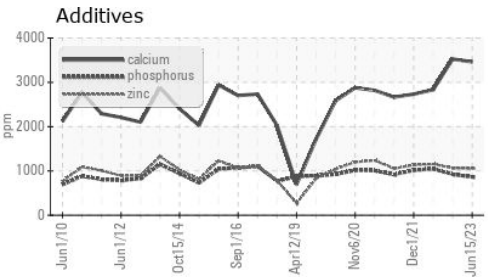
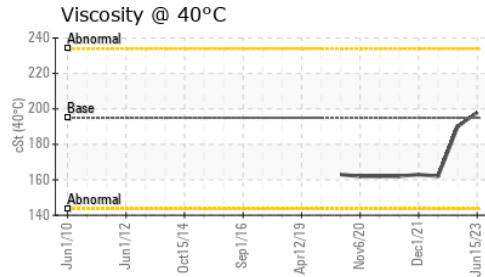
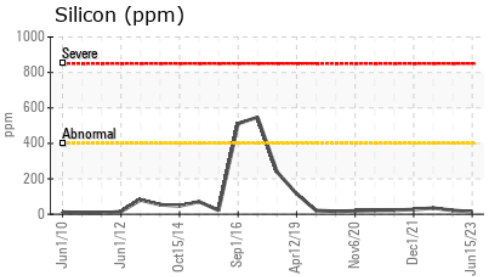
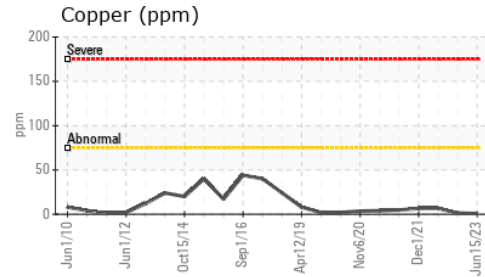
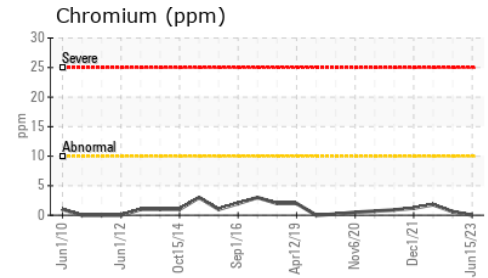
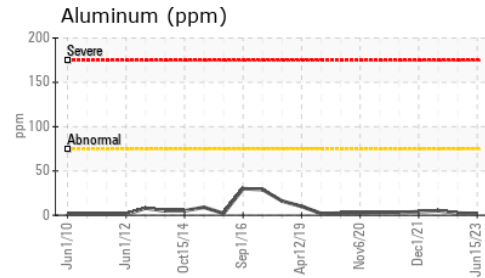
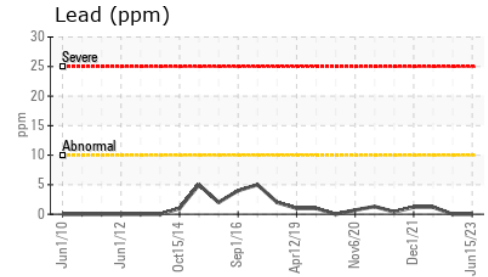
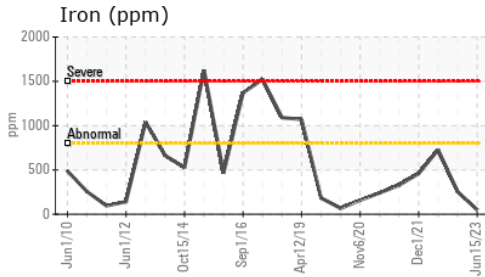
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	195	<b>198</b>	190	162

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.** : PCA0087129 **Received** : 17 Jul 2023  
**Lab Number** : **05900846** **Diagnosed** : 19 Jul 2023  
**Unique Number** : 10562202 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**Kemp Quarries - Muskogee Sand**  
 3395 W 50th St N  
 Porter, OK  
 US 74454  
 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)

muskogee@muskogeessand.com

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F: