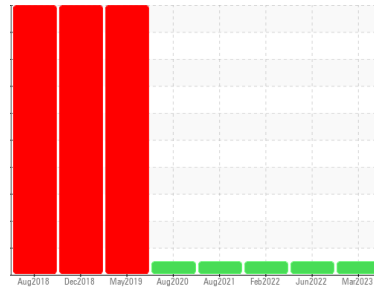


Area  
**KEMP QUARRIES / MUSKOGEE SAND**  
Machine Id  
**OHT086**  
Component  
**Rear Transmission (Manual)**  
Fluid  
**MOBIL MOBILTRANS HD 50 (--- GAL)**



## 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 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>PCA0087120</b>	PCA0062249	PCA0061797
Sample Date	Client Info	<b>23 Mar 2023</b>	23 Jun 2022	09 Feb 2022
Machine Age	hrs	<b>19795</b>	19380	19025
Oil Age	hrs	<b>415</b>	355	2210
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >200	<b>122</b>	219	75
Chromium	ppm	ASTM D5185m >5	<b>1</b>	3	<1
Nickel	ppm	ASTM D5185m >5	<b>1</b>	3	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	2	0
Silver	ppm	ASTM D5185m >7	<b>0</b>	2	0
Aluminum	ppm	ASTM D5185m >25	<b>10</b>	26	5
Lead	ppm	ASTM D5185m >45	<b>0</b>	1	<1
Copper	ppm	ASTM D5185m >225	<b>80</b>	59	1
Tin	ppm	ASTM D5185m >10	<b>0</b>	2	0
Antimony	ppm	ASTM D5185m	<b>---</b>	---	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>1</b>	11	4
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Manganese	ppm	ASTM D5185m	<b>1</b>	2	<1
Magnesium	ppm	ASTM D5185m	<b>10</b>	16	12
Calcium	ppm	ASTM D5185m	<b>2433</b>	2466	3200
Phosphorus	ppm	ASTM D5185m	<b>895</b>	807	1104
Zinc	ppm	ASTM D5185m	<b>1063</b>	1013	1202
Sulfur	ppm	ASTM D5185m	<b>6547</b>	5126	4770

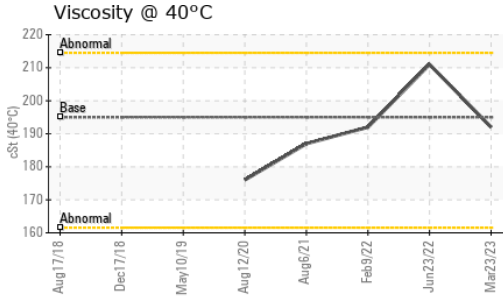
## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >125	<b>44</b>	119	25
Sodium	ppm	ASTM D5185m	<b>0</b>	5	2
Potassium	ppm	ASTM D5185m >20	<b>5</b>	5	2

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

# OIL ANALYSIS REPORT

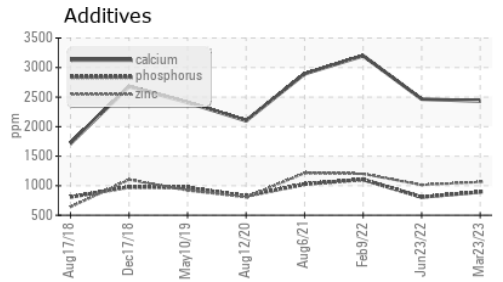
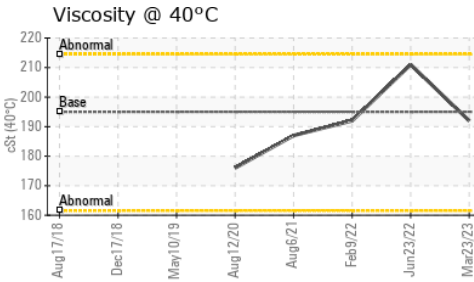
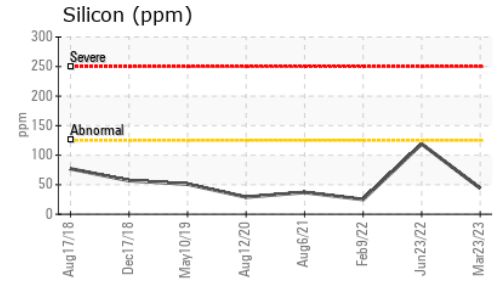
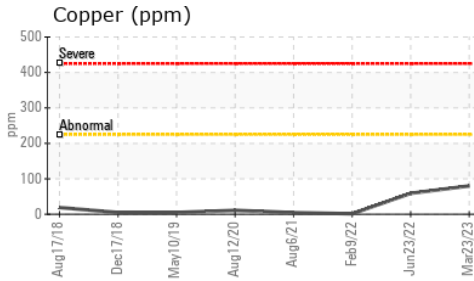
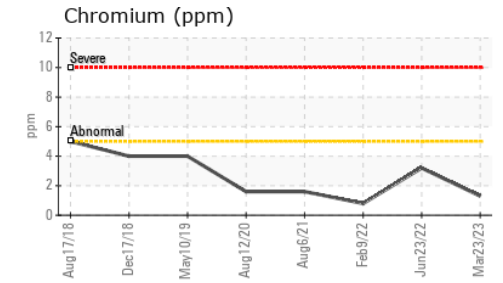
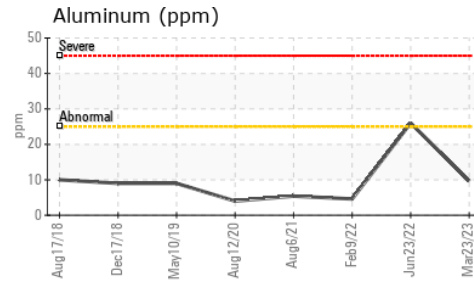
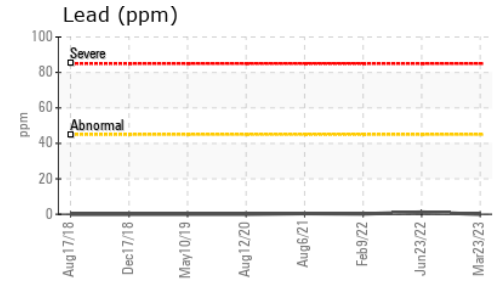
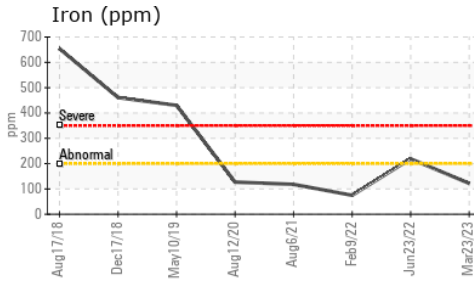


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	195	<b>192</b>	211	192

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.** : PCA0087120 **Received** : 17 Jul 2023  
**Lab Number** : **05900862** **Diagnosed** : 19 Jul 2023  
**Unique Number** : 10562218 **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

T:

F: