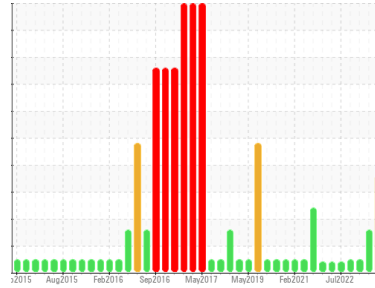


# OIL ANALYSIS REPORT



Area  
**KEMP QUARRIES / RIVER VALLEY ARKOMA**  
Machine Id  
**WL062**  
Component  
**Front Left Final Drive**  
Fluid  
**MOBIL MOBILTRANS HD 50 (--- GAL)**

Sample Rating Trend



**WEAR**



## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

Bearing and/or bushing wear is indicated.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The oil viscosity is lower than normal. Additive levels indicate 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>PCA0084029</b>	PCA0084239	PCA0070344
Sample Date	Client Info	<b>23 Oct 2023</b>	04 Aug 2023	21 Apr 2023
Machine Age	hrs	<b>25859</b>	25405	24885
Oil Age	hrs	<b>24267</b>	1500	48315
Oil Changed	Client Info	<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status		<b>ABNORMAL</b>	ABNORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >800	<b>112</b>	85	57
Chromium	ppm	ASTM D5185m >10	<b>2</b>	2	3
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >75	<b>1</b>	2	0
Lead	ppm	ASTM D5185m >10	<b>▲ 10</b>	▲ 11	10
Copper	ppm	ASTM D5185m >75	<b>▲ 84</b>	▲ 90	75
Tin	ppm	ASTM D5185m >8	<b>4</b>	5	5
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	<1	1
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>9</b>	7	11
Calcium	ppm	ASTM D5185m	<b>▲ 74</b>	105	94
Phosphorus	ppm	ASTM D5185m	<b>▲ 369</b>	389	344
Zinc	ppm	ASTM D5185m	<b>▲ 451</b>	449	467
Sulfur	ppm	ASTM D5185m	<b>▲ 940</b>	1222	1100

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >400	<b>5</b>	7	5
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	<1

## VISUAL

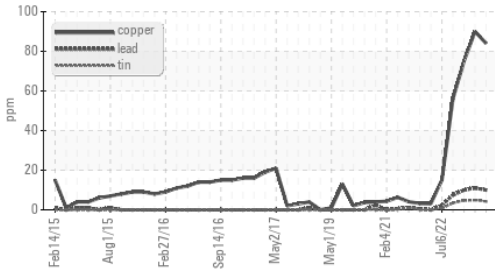
method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	MODER
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
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

## FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445 195	<b>▲ 65.9</b>	65.6	66.3

# OIL ANALYSIS REPORT

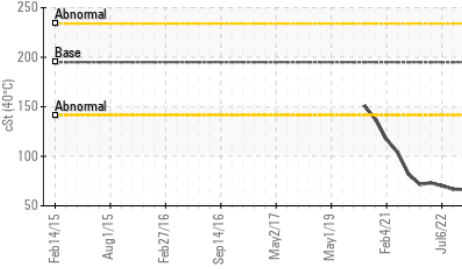
▲ **Non-ferrous Metals**



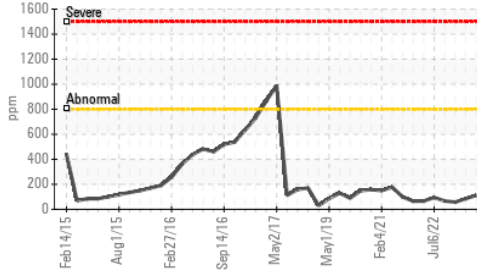
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

**GRAPHS**

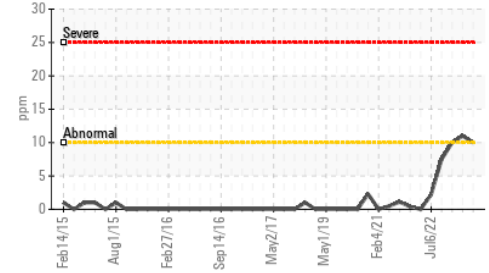
▲ **Viscosity @ 40°C**



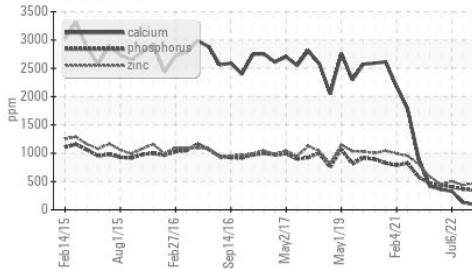
▲ **Iron (ppm)**



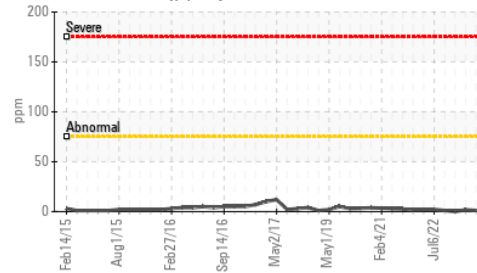
▲ **Lead (ppm)**



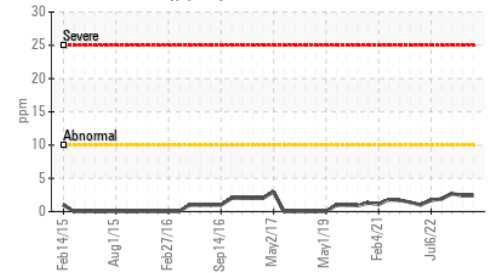
▲ **Additives**



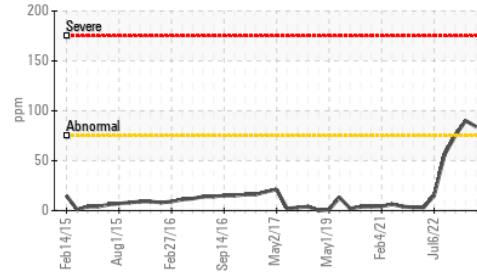
▲ **Aluminum (ppm)**



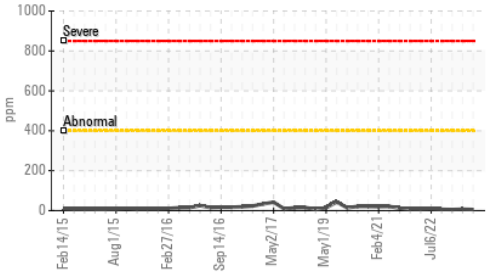
▲ **Chromium (ppm)**



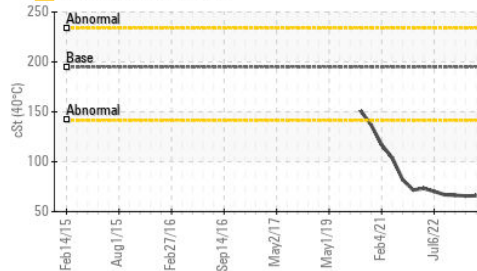
▲ **Copper (ppm)**



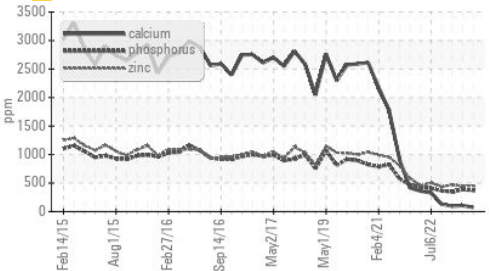
▲ **Silicon (ppm)**



▲ **Viscosity @ 40°C**



▲ **Additives**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0084029  
**Lab Number** : 06002518  
**Unique Number** : 10736280  
**Test Package** : MOB 1

**Kemp Quarries - River Valley - Arkoma**  
 12971 HWY 9a  
 Shawnee, OK  
 US 74804

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)

Contact: [arkomashop@kempquarries.net](mailto:arkomashop@kempquarries.net)

T:  
F: