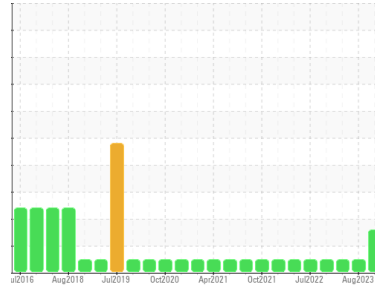


# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Area  
**KEMP QUARRIES / RIVER VALLEY ARKOMA**  
Machine Id  
**WL108**  
Component  
**Front Differential**  
Fluid  
**MOBIL MOBILTRANS HD 50 (--- GAL)**

## DIAGNOSIS

### Recommendation

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

### Wear

All component wear rates are normal.

### Contamination

There is a light concentration of water present 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>PCA0083944</b>	PCA0084136	PCA0070326
Sample Date	Client Info		<b>08 Sep 2023</b>	04 Aug 2023	23 Mar 2023
Machine Age	hrs	Client Info	<b>46766</b>	46129	45601
Oil Age	hrs	Client Info	<b>45035</b>	45035	45601
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>50</b>	51	48
Chromium	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m >3	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >30	<b>3</b>	3	<1
Lead	ppm	ASTM D5185m >13	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m >103	<b>3</b>	2	<1
Tin	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	0
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>&lt;1</b>	0	3
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>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>19</b>	18	20
Calcium	ppm	ASTM D5185m	<b>3561</b>	3787	3441
Phosphorus	ppm	ASTM D5185m	<b>1032</b>	1096	972
Zinc	ppm	ASTM D5185m	<b>1282</b>	1347	1296
Sulfur	ppm	ASTM D5185m	<b>5685</b>	5660	5572

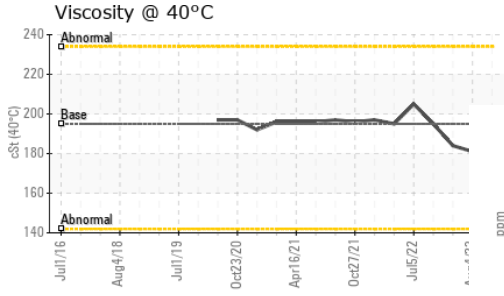
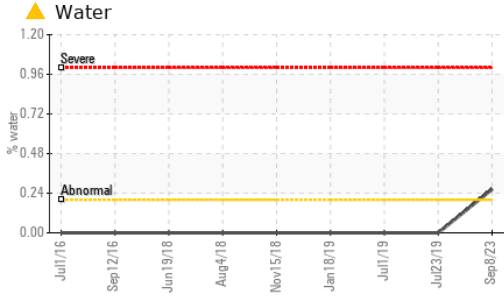
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >100	<b>20</b>	25	20
Sodium	ppm	ASTM D5185m	<b>4</b>	3	2
Potassium	ppm	ASTM D5185m >20	<b>2</b>	0	0
Water	%	ASTM D6304 >.2	<b>▲ 0.264</b>	---	---
ppm Water	ppm	ASTM D6304 >2000	<b>▲ 2640</b>	---	---

## 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 >.2	<b>0.2%</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

# OIL ANALYSIS REPORT

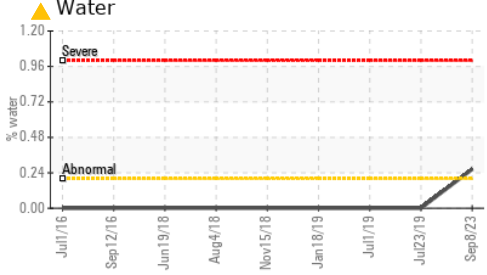
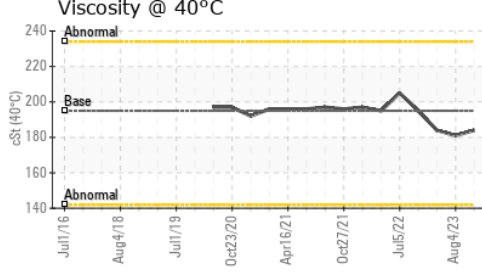
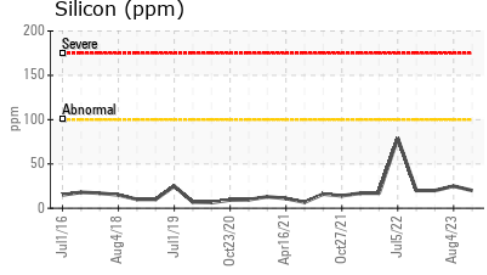
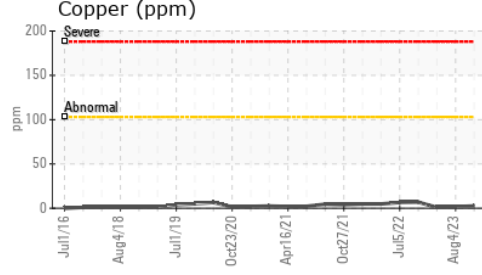
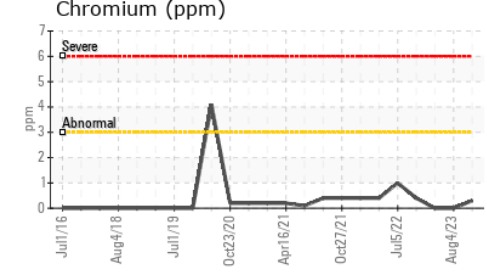
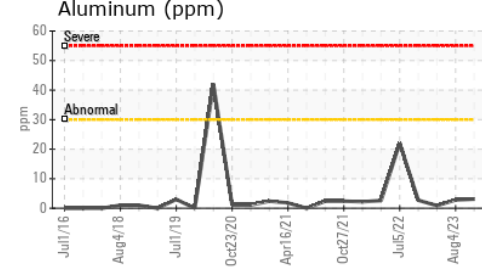
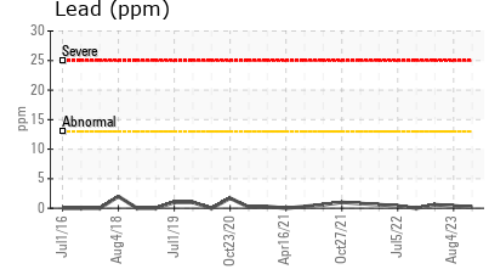
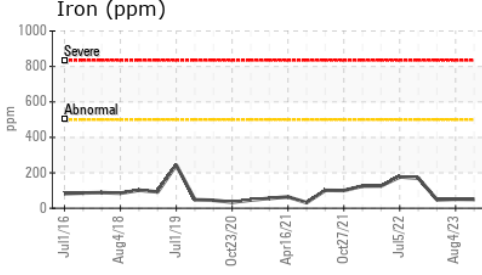


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	195	<b>184</b>	181	184

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0083944 **Received** : 15 Sep 2023  
**Lab Number** : 05953526 **Diagnosed** : 20 Sep 2023  
**Unique Number** : 10649485 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 1 ( Additional Tests: KF )

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

To discuss this sample report, contact Customer Service at 1-800-237-1369.

arkomashop@kempquarries.net

\* - 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: