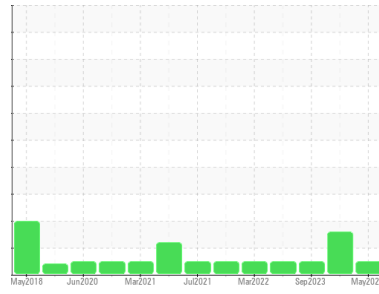


# OIL ANALYSIS REPORT



Area  
**KEMP QUARRIES / HULBERT**  
Machine Id  
**OHT097**  
Component  
**Rear Differential**  
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>PCA0085959</b>	PCA0109181	PCA0086798
Sample Date	Client Info		<b>10 May 2024</b>	10 Feb 2024	29 Sep 2023
Machine Age	hrs	Client Info	<b>36071</b>	35540	35032
Oil Age	hrs	Client Info	<b>1000</b>	0	34585
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Changed
Sample Status			<b>NORMAL</b>	ATTENTION	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>72</b>	65	148
Chromium	ppm	ASTM D5185m >3	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m >3	<b>2</b>	<1	2
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >2	<b>1</b>	0	0
Aluminum	ppm	ASTM D5185m >30	<b>4</b>	2	3
Lead	ppm	ASTM D5185m >13	<b>1</b>	0	1
Copper	ppm	ASTM D5185m >103	<b>8</b>	5	8
Tin	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>35</b>	27	65
Barium	ppm	ASTM D5185m	<b>0</b>	0	9
Molybdenum	ppm	ASTM D5185m	<b>6</b>	4	8
Manganese	ppm	ASTM D5185m	<b>1</b>	0	1
Magnesium	ppm	ASTM D5185m	<b>78</b>	69	97
Calcium	ppm	ASTM D5185m	<b>1776</b>	1703	243
Phosphorus	ppm	ASTM D5185m	<b>903</b>	826	657
Zinc	ppm	ASTM D5185m	<b>987</b>	878	380
Sulfur	ppm	ASTM D5185m	<b>5759</b>	5270	11209

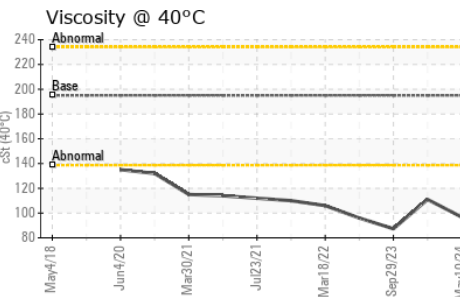
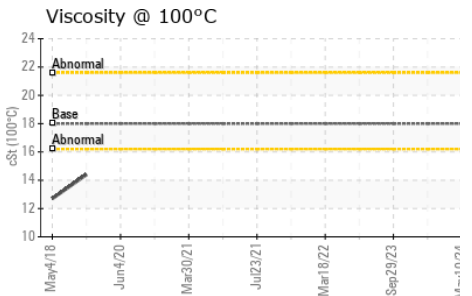
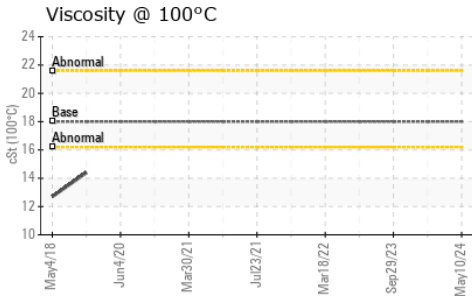
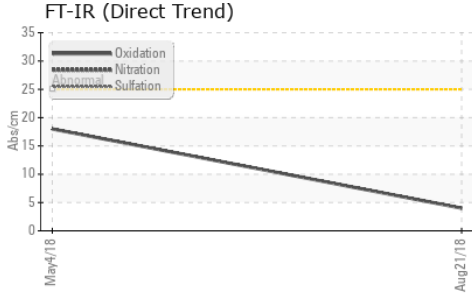
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >100	<b>16</b>	15	25
Sodium	ppm	ASTM D5185m	<b>2</b>	1	0
Potassium	ppm	ASTM D5185m >20	<b>2</b>	1	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	MODER
Debris	scalar	*Visual NONE	<b>NONE</b>	LIGHT	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>NEG</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

# OIL ANALYSIS REPORT

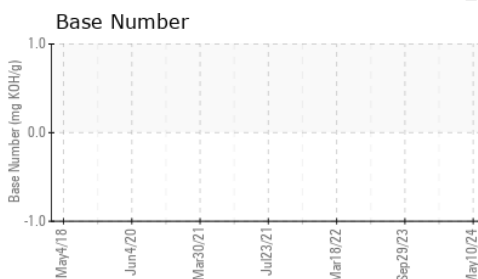
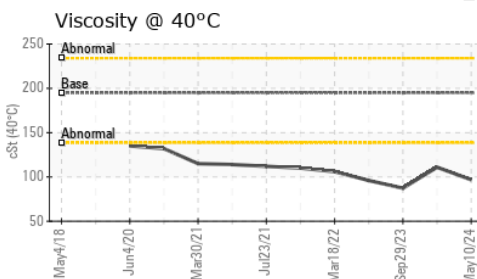
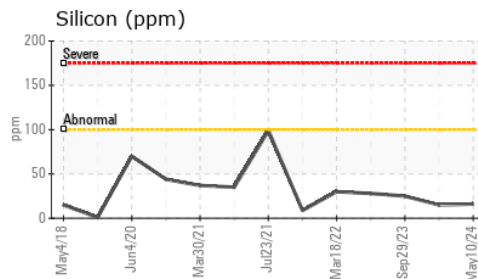
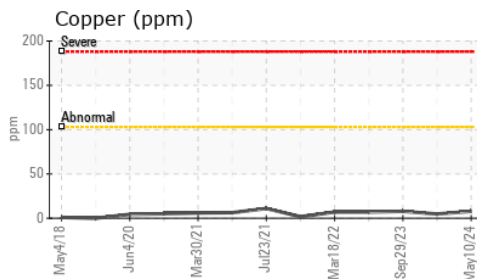
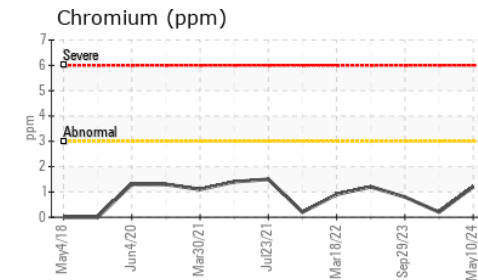
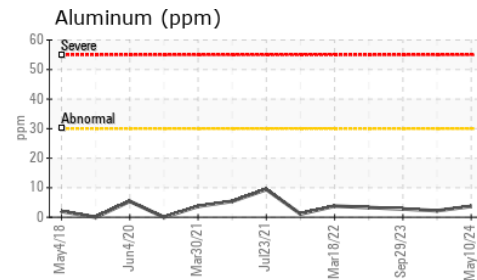
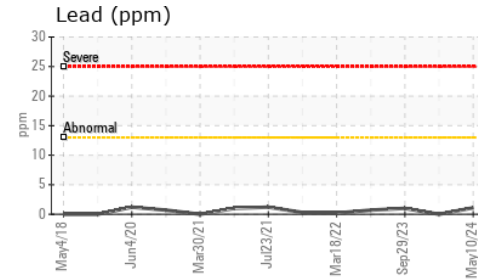
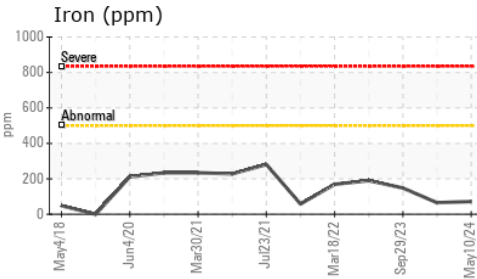


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	195	96.8	111	87.3

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.** : PCA0085959      **Received** : 28 May 2024  
**Lab Number** : 06193124      **Tested** : 30 May 2024  
**Unique Number** : 11049876      **Diagnosed** : 30 May 2024 - Sean Felton  
**Test Package** : MOB 1 ( Additional Tests: FT-IR, KV100, TBN )

**Kemp Quarries - Kemp Stone - Hulbert**  
 17801 Hwy 80  
 Hulbert, OK  
 US 74441  
 Contact:  
 hulbert@kempstone.com

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)