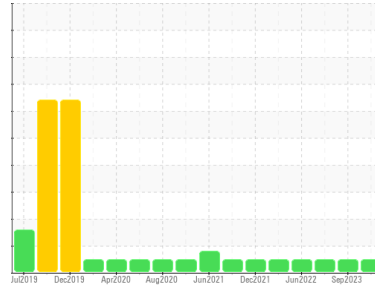


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
KEMP QUARRIES / HULBERT
Machine Id
WL131
Component
Rear Differential
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 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 | | PCA0109232 | PCA0086856 | PCA0061855 |
| Sample Date | Client Info | | 03 Nov 2023 | 15 Sep 2023 | 29 Oct 2022 |
| Machine Age | hrs | Client Info | 10240 | 9868 | 8686 |
| Oil Age | hrs | Client Info | 0 | 0 | 0 |
| Oil Changed | Client Info | | Not Changed | Not Changd | Not Changed |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >500 | 55 | 45 | 135 |
| Chromium | ppm | ASTM D5185m >3 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m >3 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m >2 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >30 | <1 | 0 | 2 |
| Lead | ppm | ASTM D5185m >13 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185m >103 | 3 | 3 | 7 |
| Tin | ppm | ASTM D5185m >5 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 15 | 9 | 29 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | <1 | 2 | 1 |
| Manganese | ppm | ASTM D5185m | <1 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | 31 | 35 | 24 |
| Calcium | ppm | ASTM D5185m | 3093 | 3240 | 3092 |
| Phosphorus | ppm | ASTM D5185m | 1045 | 1024 | 1022 |
| Zinc | ppm | ASTM D5185m | 1213 | 1260 | 1167 |
| Sulfur | ppm | ASTM D5185m | 5260 | 4642 | 6728 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|-----------|----------|----------|
| Silicon | ppm | ASTM D5185m >100 | 29 | 13 | 13 |
| Sodium | ppm | ASTM D5185m | 2 | 1 | 2 |
| Potassium | ppm | ASTM D5185m >20 | 0 | 0 | 0 |

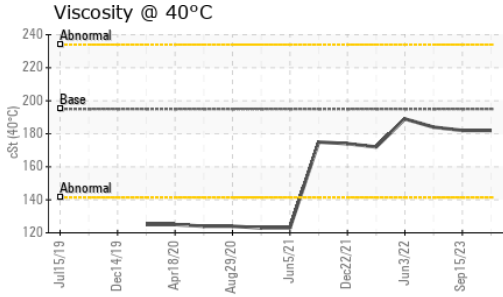
VISUAL

| | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|--------------|----------|----------|
| White Metal | scalar | *Visual NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual NONE | NONE | LIGHT | NONE |
| Sand/Dirt | scalar | *Visual NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual >.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | NEG | NEG | NEG |

FLUID PROPERTIES

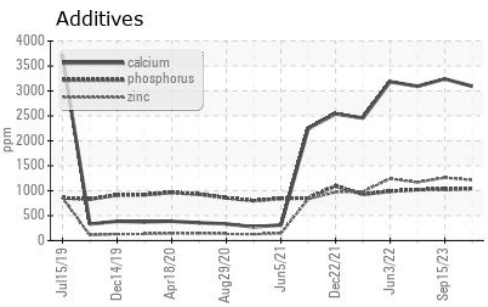
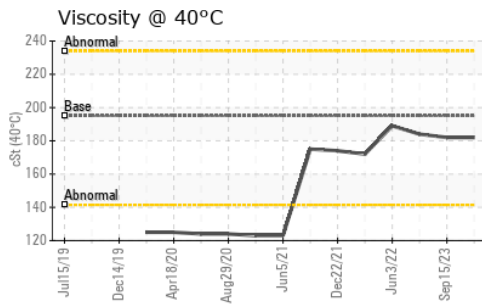
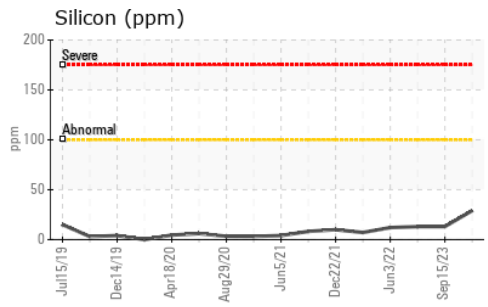
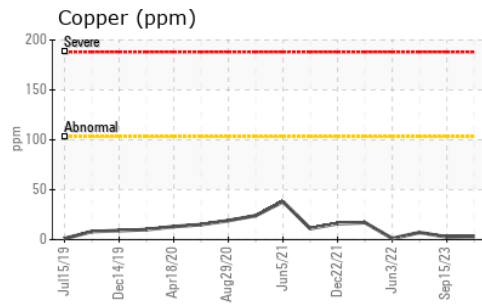
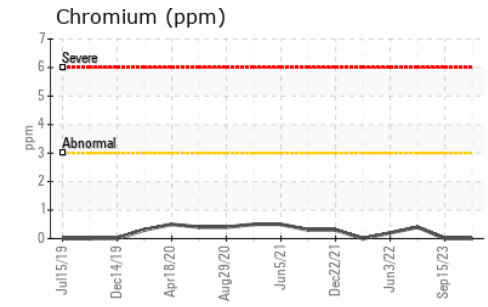
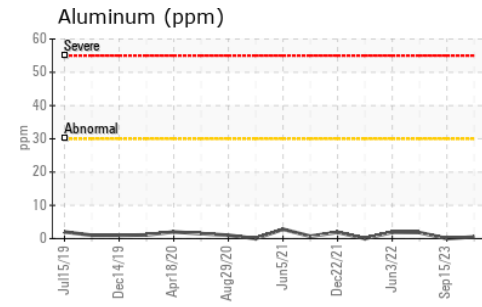
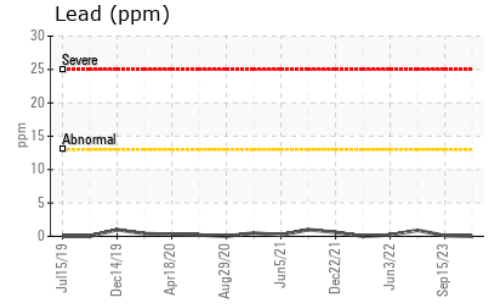
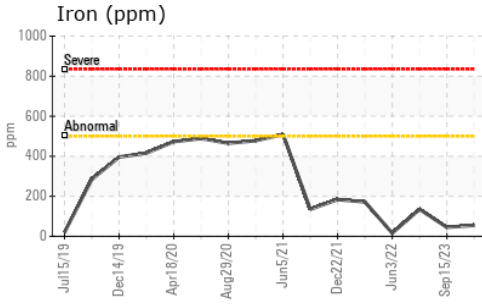
| | method | limit/base | current | history1 | history2 |
|-------------|--------|---------------|------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 195 | 182 | 182 | 184 |

OIL ANALYSIS REPORT



| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|----------|----------|----------|
| 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. : PCA0109232 **Received** : 13 Nov 2023
Lab Number : 06006569 **Diagnosed** : 14 Nov 2023
Unique Number : 10740331 **Diagnostician** : Wes Davis
Test Package : MOB 1

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)

T:
F: