

Area
KEMP QUARRIES / RIVER VALLEY BACKBONE

Machine Id
OHT087

Component
Transmission (Manual)

Fluid
MOBIL MOBILTRANS HD 30 (--- GAL)

RECOMMENDATION

The fluid change at the time of sampling has been noted. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | PCA0069908 | PCA0084884 | PCA0084876 |
| Sample Date | | Client Info | | 28 Dec 2023 | 13 Oct 2023 | 14 Aug 2023 |
| Machine Age | hrs | Client Info | | 33775 | 33094 | 33094 |
| Oil Age | hrs | Client Info | | 1200 | 600 | 600 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Filter Changed | | Client Info | | Changed | Not Changd | Changed |
| Sample Status | | | | ABNORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >200 | 4 | <1 | 5 |
| Chromium | ppm | ASTM D5185m | >5 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >5 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >7 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | 2 | 2 |
| Lead | ppm | ASTM D5185m | >45 | <1 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >225 | 3 | 3 | 4 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

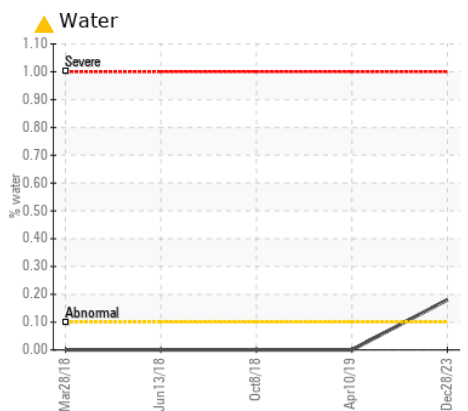
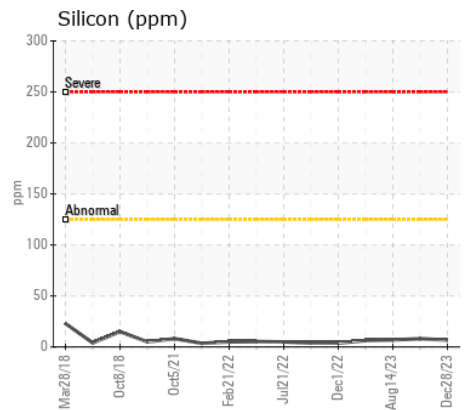
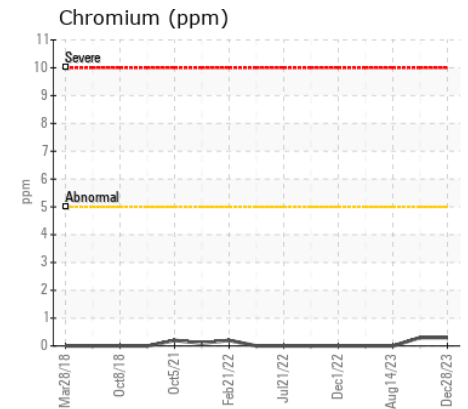
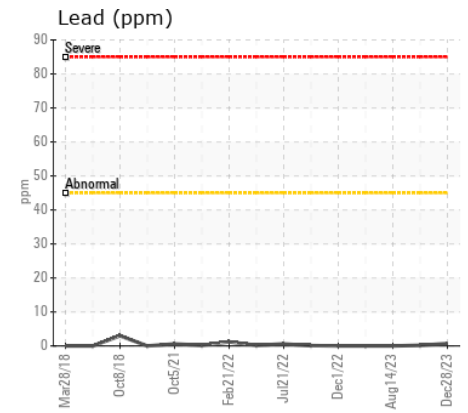
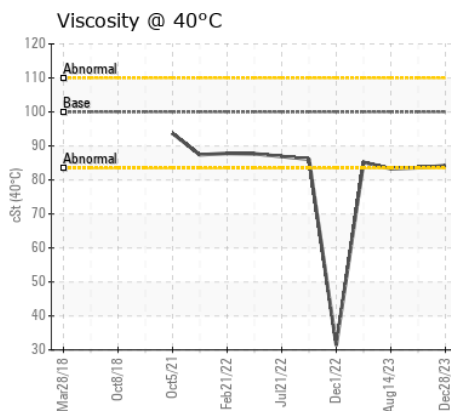
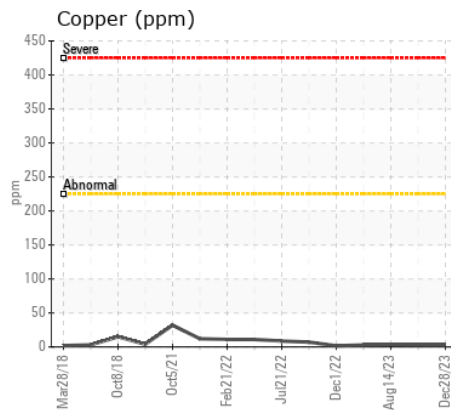
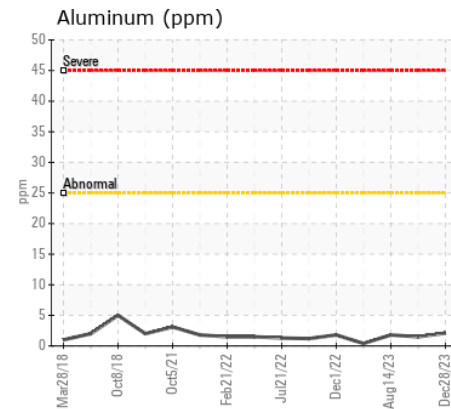
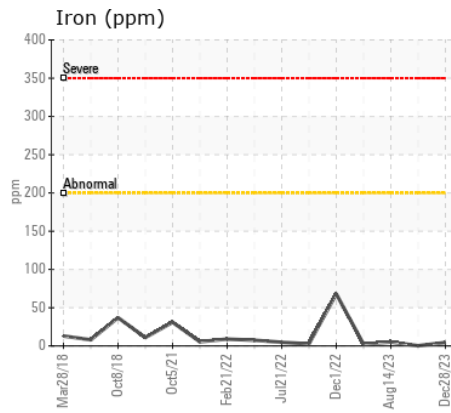
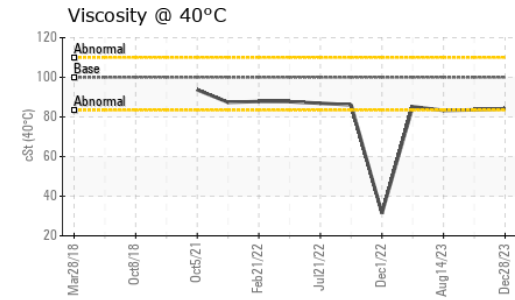
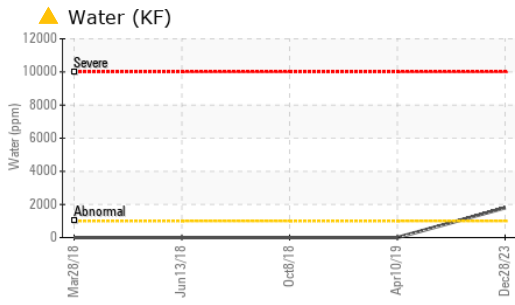
There is a light concentration of water present in the fluid.

| | | | | | | |
|------------------|--------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >125 | 7 | 8 | 7 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 2 | <1 |
| Water | % | ASTM D6304 | >0.1 | ▲ 0.180 | --- | --- |
| ppm Water | ppm | ASTM D6304 | >1000 | ▲ 1800 | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | 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 | >0.1 | 0.2% | NEG | NEG |

FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|-----|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Boron | ppm | ASTM D5185m | | <1 | 0 | 2 |
| Barium | ppm | ASTM D5185m | | 0 | 9 | 2 |
| Molybdenum | ppm | ASTM D5185m | | 1 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | 13 | 13 | 14 |
| Calcium | ppm | ASTM D5185m | | 3286 | 3213 | 3302 |
| Phosphorus | ppm | ASTM D5185m | | 936 | 902 | 916 |
| Zinc | ppm | ASTM D5185m | | 1108 | 1109 | 1104 |
| Sulfur | ppm | ASTM D5185m | | 4412 | 4052 | 3595 |
| Visc @ 40°C | cSt | ASTM D445 | 100 | 84.2 | 83.6 | 83.3 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0069908 **Received** : 08 Jan 2024
Lab Number : 06054444 **Diagnosed** : 10 Jan 2024
Unique Number : 10820393 **Diagnostician** : Jonathan Hester
Test Package : MOB 1 (Additional Tests: KF)

Kemp Quarries - River Valley - Backbone
 5600 S Hwy 253
 Huntington, AR
 US 72940
 Contact:
 backbone@rivervalleyquarries.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)

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F: