



| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Area
KEMP QUARRIES / RIVER VALLEY BACKBONE

Machine Id
OHT087

Component
Differential

Fluid
MOBIL MOBILTRANS HD 50 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | PCA0069909 | PCA0084883 | PCA0084879 |
| 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 | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >500 | 113 | 105 | 103 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | 2 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | 2 | 2 |
| Lead | ppm | ASTM D5185m | >25 | 1 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >100 | 4 | 3 | 3 |
| 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

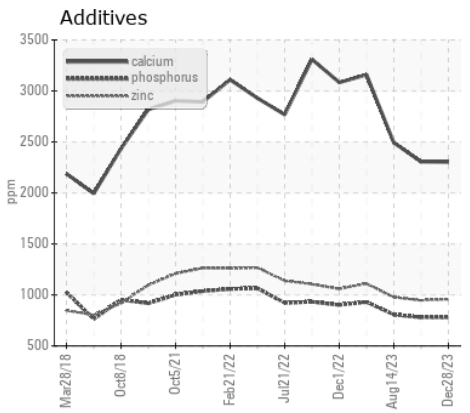
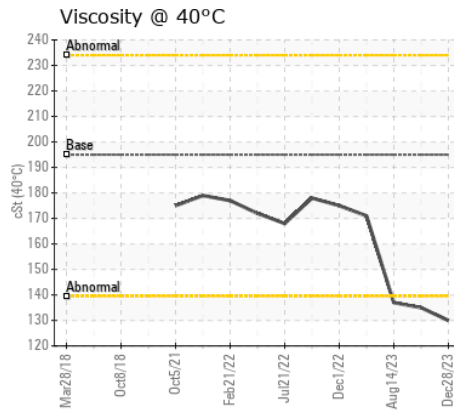
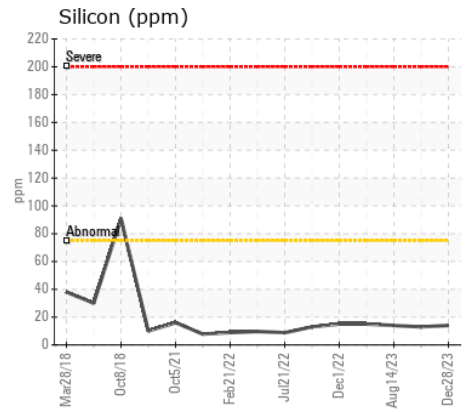
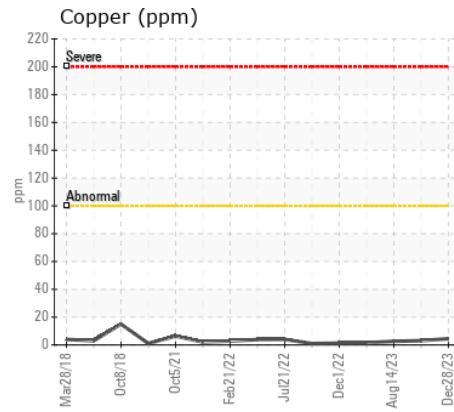
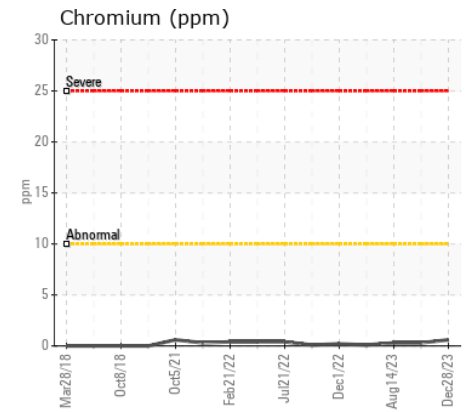
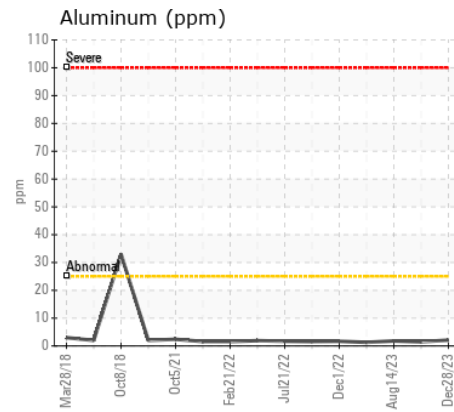
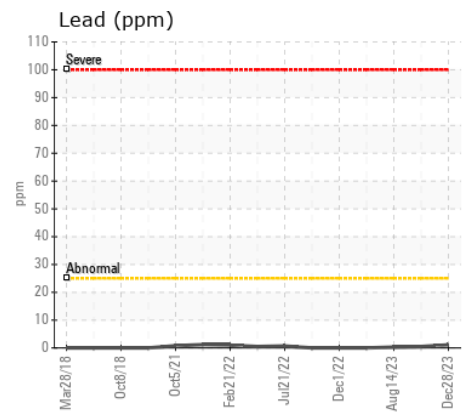
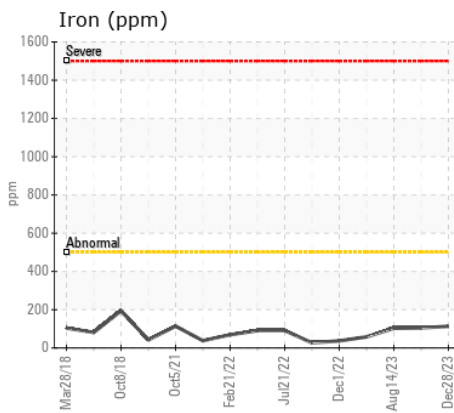
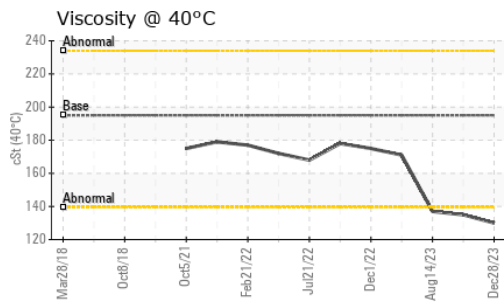
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >75 | 14 | 13 | 14 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 2 | 1 |
| Water | | WC Method | >.2 | NEG | NEG | NEG |
| 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 | >.2 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|-----|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Boron | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Barium | ppm | ASTM D5185m | | 0 | 9 | 2 |
| Molybdenum | ppm | ASTM D5185m | | 2 | 2 | 2 |
| Manganese | ppm | ASTM D5185m | | 2 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 22 | 21 | 22 |
| Calcium | ppm | ASTM D5185m | | 2302 | 2306 | 2493 |
| Phosphorus | ppm | ASTM D5185m | | 779 | 780 | 807 |
| Zinc | ppm | ASTM D5185m | | 957 | 947 | 978 |
| Sulfur | ppm | ASTM D5185m | | 8313 | 7797 | 6988 |
| Visc @ 40°C | cSt | ASTM D445 | 195 | 130 | 135 | 137 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0069909 **Received** : 08 Jan 2024
Lab Number : 06054428 **Diagnosed** : 09 Jan 2024
Unique Number : 10820377 **Diagnostician** : Wes Davis
Test Package : MOB 1

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)

T:
F: