



WEAR **NORMAL**

CONTAMINATION **NORMAL**

FLUID CONDITION **NORMAL**



Area
KEMP QUARRIES / RIVER VALLEY OZARK

Machine Id
WL033

Component
Rear 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 | | PCA0109130 | PCA0069713 | PCA0069763 |
| Sample Date | | Client Info | | 13 Jun 2024 | 15 Mar 2024 | 10 Oct 2023 |
| Machine Age | hrs | Client Info | | 43181 | 42691 | 42265 |
| Oil Age | hrs | Client Info | | 323556 | 323556 | 323556 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| 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 | 188 | 201 | 64 |
| Chromium | ppm | ASTM D5185m | >3 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >3 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | >2 | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >30 | 3 | 3 | 2 |
| Lead | ppm | ASTM D5185m | >13 | <1 | 1 | <1 |
| Copper | ppm | ASTM D5185m | >103 | 5 | 5 | 2 |
| Tin | ppm | ASTM D5185m | >5 | 1 | 2 | 1 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

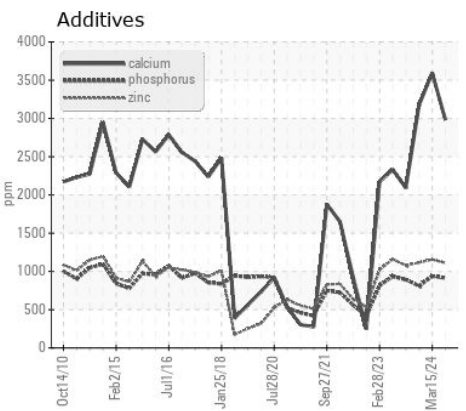
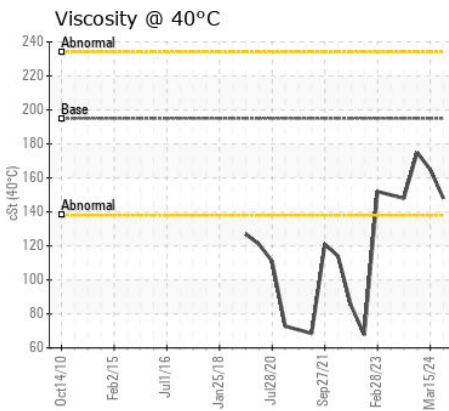
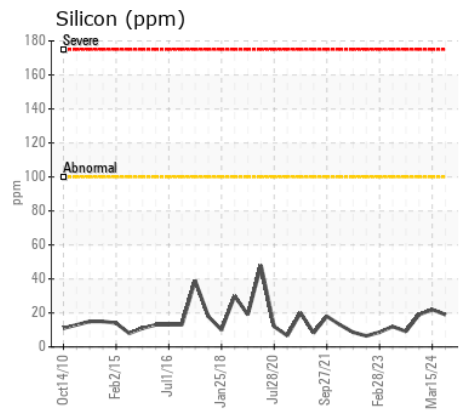
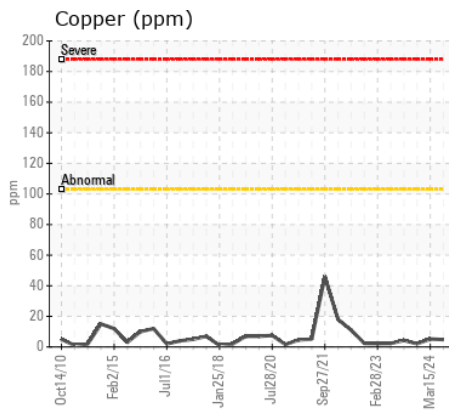
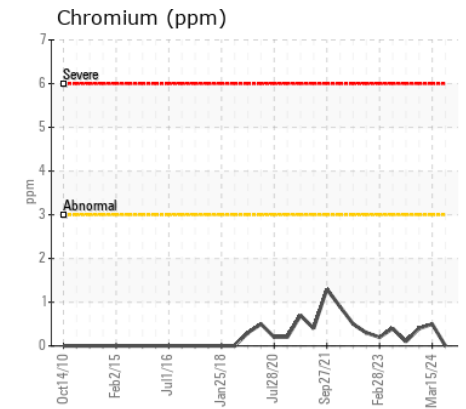
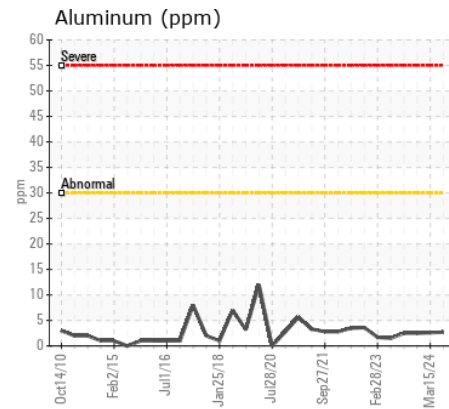
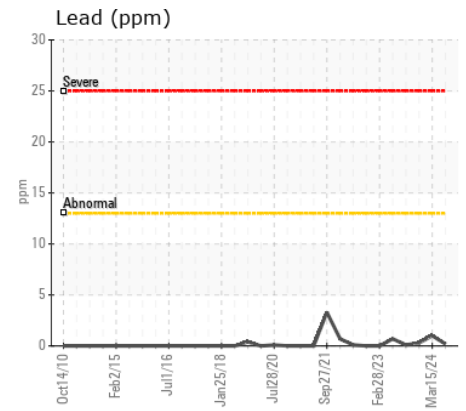
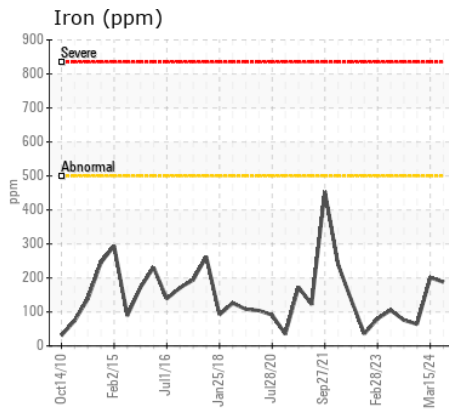
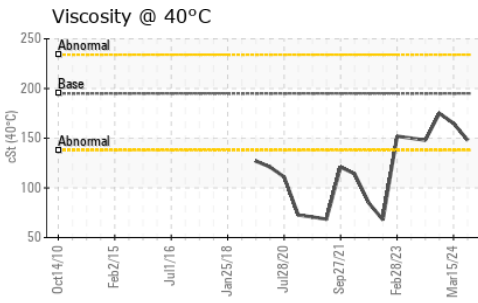
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >100 | 19 | 22 | 19 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 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 | | 2 | 0 | 2 |
| Boron | ppm | ASTM D5185m | | 4 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 1 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 2 | 0 |
| Manganese | ppm | ASTM D5185m | | 2 | 2 | 1 |
| Magnesium | ppm | ASTM D5185m | | 28 | 14 | 16 |
| Calcium | ppm | ASTM D5185m | | 2983 | 3595 | 3175 |
| Phosphorus | ppm | ASTM D5185m | | 914 | 938 | 811 |
| Zinc | ppm | ASTM D5185m | | 1111 | 1156 | 1117 |
| Sulfur | ppm | ASTM D5185m | | 4630 | 4660 | 3987 |
| Visc @ 40°C | cSt | ASTM D445 | 195 | 148 | 165 | 175 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : PCA0109130
 Lab Number : 06216385
 Unique Number : 11089249
 Test Package : MOB 1

Received : 20 Jun 2024
 Tested : 21 Jun 2024
 Diagnosed : 21 Jun 2024 - Wes Davis

Kemp Quarries - River Valley - Ozark
 9446 N Hwy 309
 Ozark, AR
 US 72949
 Contact: OZARK NOTIFICATIONS
 ozark@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: