

Area
KEMP QUARRIES / RIVER VALLEY OZARK
Machine Id
WL091
Component
Front Right Final Drive
Fluid
MOBIL MOBILTRANS HD 50 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | PCA0086933 | PCA0084556 | PCA0086190 |
| Sample Date | | Client Info | | 16 Apr 2024 | 19 Jul 2023 | 13 Jan 2023 |
| Machine Age | hrs | Client Info | | 25576 | 15252 | 24686 |
| Oil Age | hrs | Client Info | | 184746 | 15252 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | Not Changd |
| Filter Changed | | Client Info | | N/A | N/A | None |
| Sample Status | | | | ABNORMAL | NORMAL | NORMAL |

WEAR

Gear wear is indicated.

| | | | | | | |
|--------------|--------|-------------|------|---------------|------|-------|
| Iron | ppm | ASTM D5185m | >500 | ▲ 1266 | 62 | 48 |
| Chromium | ppm | ASTM D5185m | >10 | 1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | 2 | 1 |
| Lead | ppm | ASTM D5185m | >25 | 1 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >50 | 7 | 3 | 2 |
| Tin | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | LIGHT |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

There is no indication of any contamination in the oil.

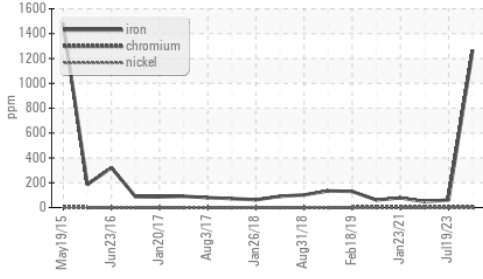
| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >75 | 60 | 13 | 12 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 1 | 0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | VLITE |
| 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 | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

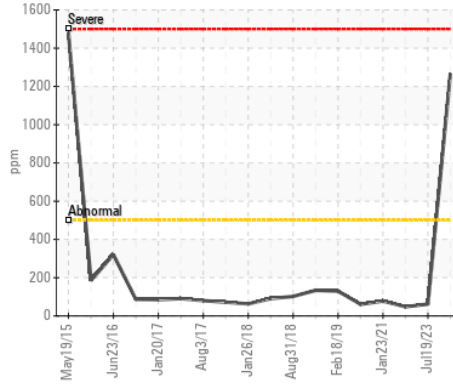
The condition of the oil is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|-----|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 0 | 0 | 2 |
| Boron | ppm | ASTM D5185m | | 3 | 49 | 44 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | <1 | 3 | 3 |
| Manganese | ppm | ASTM D5185m | | 9 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 16 | 57 | 51 |
| Calcium | ppm | ASTM D5185m | | 3153 | 2731 | 2799 |
| Phosphorus | ppm | ASTM D5185m | | 991 | 968 | 930 |
| Zinc | ppm | ASTM D5185m | | 1011 | 1091 | 1090 |
| Sulfur | ppm | ASTM D5185m | | 4992 | 7866 | 8364 |
| Visc @ 40°C | cSt | ASTM D445 | 195 | 190 | 175 | 177 |

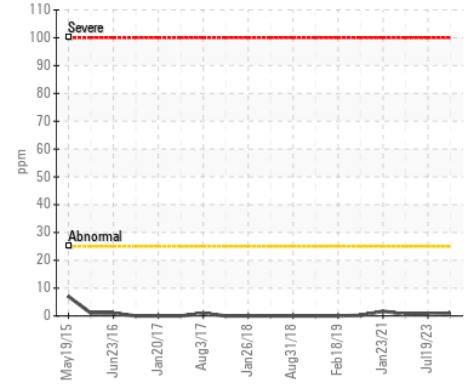
▲ Ferrous Alloys



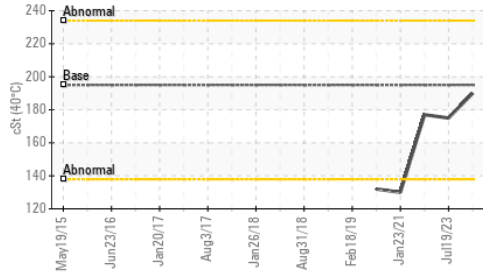
▲ Iron (ppm)



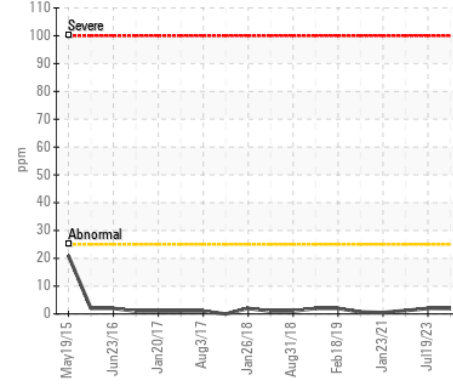
Lead (ppm)



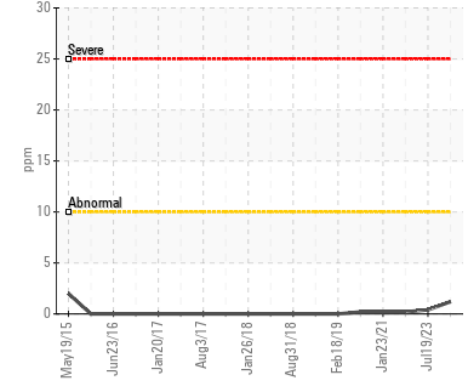
Viscosity @ 40°C



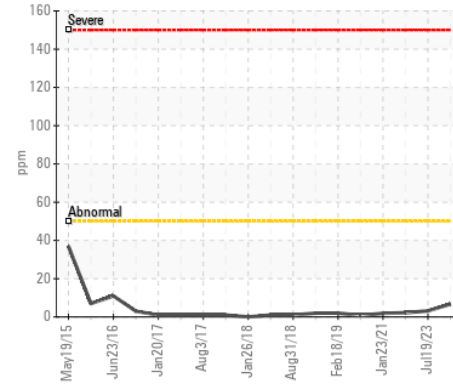
Aluminum (ppm)



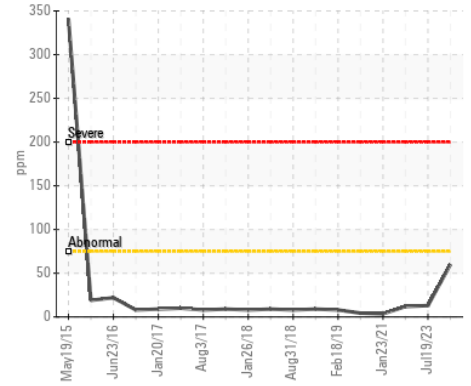
Chromium (ppm)



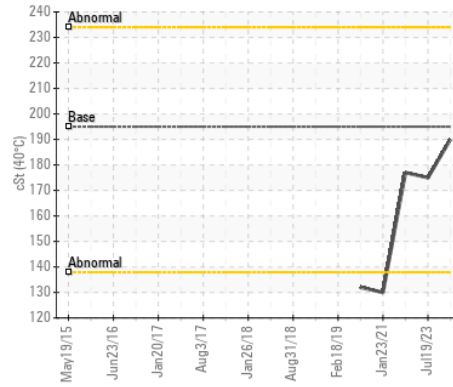
Copper (ppm)



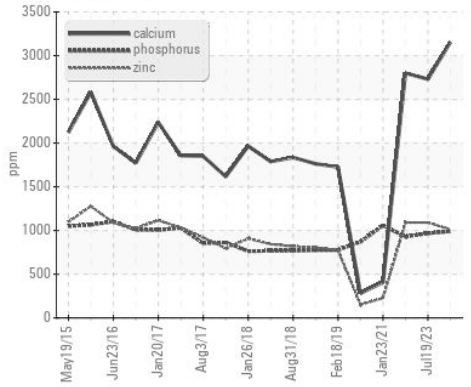
Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : PCA0086933
 Lab Number : 06155371
 Unique Number : 10990794
 Test Package : MOB 1

Received : 19 Apr 2024
 Tested : 24 Apr 2024
 Diagnosed : 24 Apr 2024 - Jonathan Hester

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

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)

ozark@rivervalleyquarries.com

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F: