

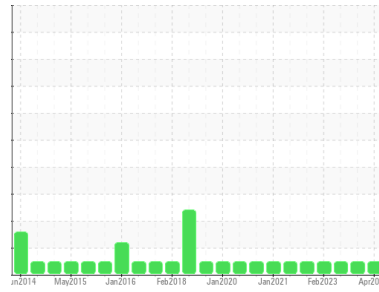


OIL ANALYSIS REPORT



Area
OKLAHOMA/3/EG - LOADER
 Machine Id
48.81L [OKLAHOMA^3^EG - LOADER]
 Component
Front Differential
 Fluid
MOBIL SHC 629 (--- GAL)

Sample Rating Trend



NORMAL

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 | | WC0914485 | WC0857304 | WC0807949 |
| Sample Date | Client Info | | 02 Apr 2024 | 20 Oct 2023 | 07 Jun 2023 |
| Machine Age | hrs | Client Info | 2532 | 1757 | 1084 |
| Oil Age | hrs | Client Info | 2532 | 1179 | 1000 |
| Oil Changed | Client Info | | Changed | Changed | Changed |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >.2 | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 | |
|----------|--------|-------------|---------|--------------|----------|----|
| Iron | ppm | ASTM D5185m | >500 | 39 | 54 | 86 |
| Chromium | ppm | ASTM D5185m | >3 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >2 | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >30 | <1 | 2 | 5 |
| Lead | ppm | ASTM D5185m | >13 | <1 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >103 | 44 | 26 | 40 |
| 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 | | 0 | 0 | 3 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | | 2 | 2 | 10 |
| Calcium | ppm | ASTM D5185m | | 307 | 317 | 3041 |
| Phosphorus | ppm | ASTM D5185m | | 544 | 354 | 1066 |
| Zinc | ppm | ASTM D5185m | | 153 | 139 | 1318 |
| Sulfur | ppm | ASTM D5185m | | 900 | 743 | 8439 |

CONTAMINANTS

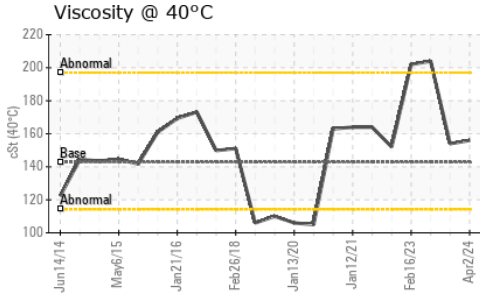
| | method | limit/base | current | history1 | history2 | |
|-----------|--------|-------------|---------|-----------|----------|----|
| Silicon | ppm | ASTM D5185m | >100 | 18 | 20 | 6 |
| Sodium | ppm | ASTM D5185m | | 9 | 10 | 31 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |

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 | 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 |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |



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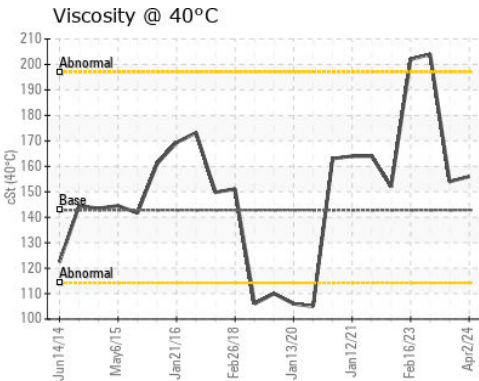
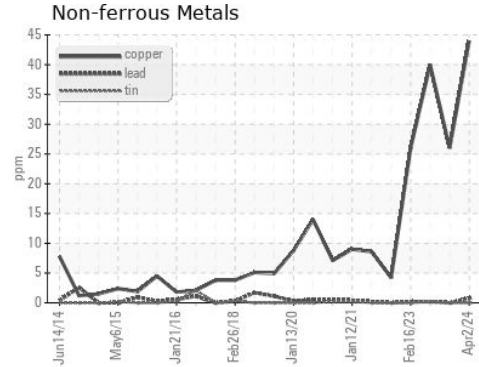
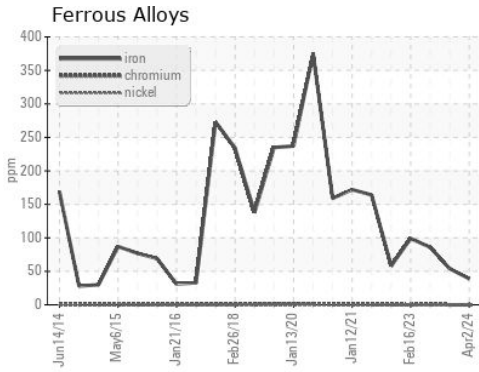
| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
|------------------|--------|------------|---------|----------|----------|

| | | | | | | |
|-------------|-----|-----------|-------|------------|-----|-----|
| Visc @ 40°C | cSt | ASTM D445 | 142.8 | 156 | 154 | 204 |
|-------------|-----|-----------|-------|------------|-----|-----|

| 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. : WC0914485
Lab Number : **06140322**
Unique Number : 10965130
Test Package : CONST

Received : 05 Apr 2024
Tested : 08 Apr 2024
Diagnosed : 08 Apr 2024 - Wes Davis

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS
 US 67213
 Contact: DOUG KING
 doug.king@sherwood.net
 T: (316)617-3161
 F: x:

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)