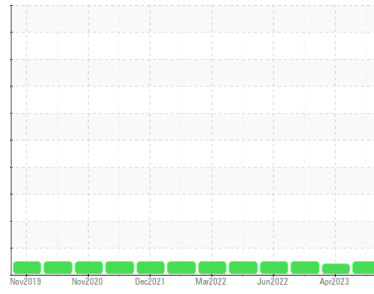




OIL ANALYSIS REPORT

Area
OKLAHOMA/102/EG - EXCAVATOR
 Machine Id
20.143L [OKLAHOMA^102^EG - EXCAVATOR]
 Component
Left Final Drive
 Fluid
MOBIL MOBILTRANS HD 50 (--- 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 | | | WC0914523 | WC0746789 | WC0726331 |
| Sample Date | Client Info | | | 14 May 2024 | 03 Apr 2023 | 17 Aug 2022 |
| Machine Age | hrs | Client Info | | 4206 | 2988 | 2988 |
| Oil Age | hrs | Client Info | | 2988 | 2988 | 1664 |
| Oil Changed | Client Info | | | N/A | N/A | Changed |
| Sample Status | | | | NORMAL | ABNORMAL | NORMAL |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---------------|-----------|--------|------------|------------|----------|----------|
| Water | WC Method | | >0.2 | NEG | NEG | NEG |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >800 | 123 | 129 | 116 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 1 | 1 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >15 | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >75 | 4 | 5 | 7 |
| Lead | ppm | ASTM D5185m | >10 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >75 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185m | >8 | <1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |

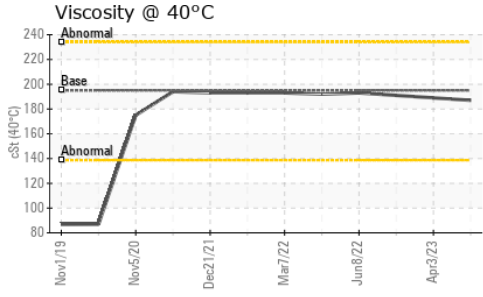
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | | 10 | 8 | 3 |
| Barium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 3 | 3 | 2 |
| Manganese | ppm | ASTM D5185m | | 2 | 2 | 2 |
| Magnesium | ppm | ASTM D5185m | | 35 | 33 | 20 |
| Calcium | ppm | ASTM D5185m | | 3108 | 2769 | 3021 |
| Phosphorus | ppm | ASTM D5185m | | 1137 | 937 | 1037 |
| Zinc | ppm | ASTM D5185m | | 1290 | 1161 | 1288 |
| Sulfur | ppm | ASTM D5185m | | 9079 | 7426 | 13522 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|-----------|----------|----------|
| Silicon | ppm | ASTM D5185m | >400 | 28 | 38 | 30 |
| Sodium | ppm | ASTM D5185m | | 1 | <1 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 3 | 4 |

| 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 | MODER | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | ▲ MODER | 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 | >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |



OIL ANALYSIS REPORT



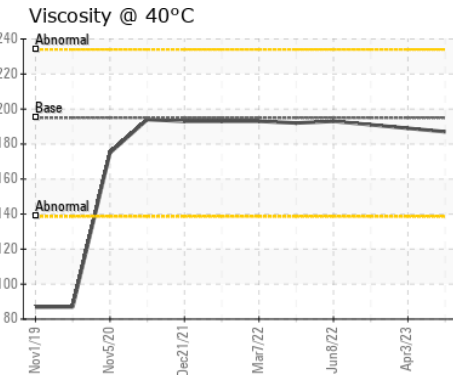
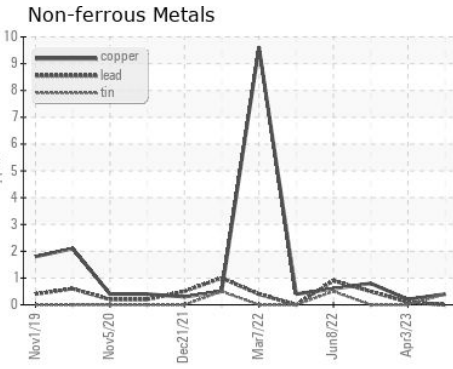
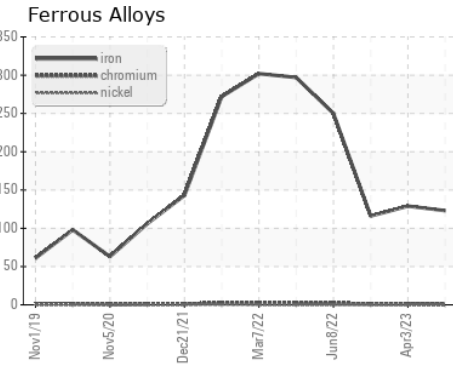
FLUID PROPERTIES

| method | limit/base | current | history1 | history2 |
|-------------|---------------|---------|------------|----------|
| Visc @ 40°C | cSt ASTM D445 | 195 | 187 | 189 |

SAMPLE IMAGES

| method | limit/base | current | history1 | history2 |
|--------|------------|----------|----------|----------|
| Color | | no image | no image | no image |
| Bottom | | no image | no image | no image |

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0914523
Lab Number : **06200643**
Unique Number : 11062766
Test Package : CONST

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS
 US 67213
 Contact: DOUG KING
 doug.king@sherwood.net

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)