



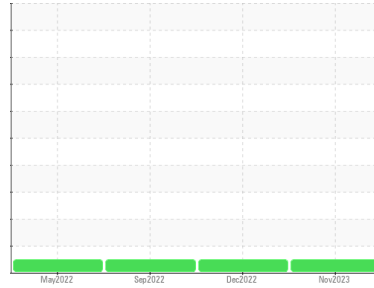
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
OKLAHOMA/102
 Machine Id
74.30 [OKLAHOMA^102]
 Component
Front Right Final Drive
 Fluid
MOBIL MOBILTRANS HD 50 (--- GAL)



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 | | WC0821766 | WC0746377 | WC0738568 |
| Sample Date | Client Info | | 10 Nov 2023 | 05 Dec 2022 | 10 Sep 2022 |
| Machine Age | hrs | Client Info | 2245 | 958 | 692 |
| Oil Age | hrs | Client Info | 2200 | 958 | 692 |
| Oil Changed | Client Info | | Changed | Not Changd | Not Changd |
| Sample Status | | | NORMAL | NORMAL | 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 | >501 | 75 | 55 | 37 |
| Chromium | ppm | ASTM D5185m | >11 | <1 | 1 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | <1 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | >15 | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >11 | 1 | 4 | 2 |
| Lead | ppm | ASTM D5185m | >10 | 2 | 4 | 2 |
| Copper | ppm | ASTM D5185m | >51 | 40 | 33 | 32 |
| Tin | ppm | ASTM D5185m | >8 | 4 | 3 | 3 |
| 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 | | 193 | 171 | 188 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | | 2 | 2 | 1 |
| Magnesium | ppm | ASTM D5185m | | 1 | 2 | <1 |
| Calcium | ppm | ASTM D5185m | | 61 | 41 | 36 |
| Phosphorus | ppm | ASTM D5185m | | 940 | 937 | 922 |
| Zinc | ppm | ASTM D5185m | | 19 | <1 | 15 |
| Sulfur | ppm | ASTM D5185m | | 26571 | 25056 | 24054 |

CONTAMINANTS

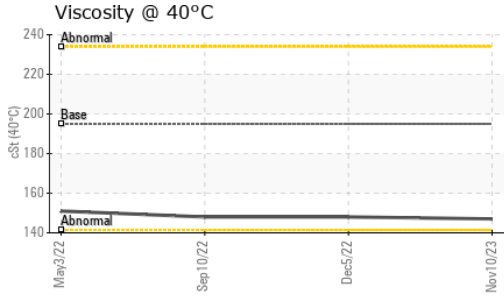
| | method | limit/base | current | history1 | history2 | |
|-----------|--------|-------------|---------|----------|----------|---|
| Silicon | ppm | ASTM D5185m | >51 | 3 | 2 | 1 |
| Sodium | ppm | ASTM D5185m | | 0 | 3 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 2 | 0 |

VISUAL

| | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|--------------|----------|-------|
| White Metal | scalar | *Visual | NONE | NONE | MODER | MODER |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | VLITE |
| 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 | >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |



OIL ANALYSIS REPORT

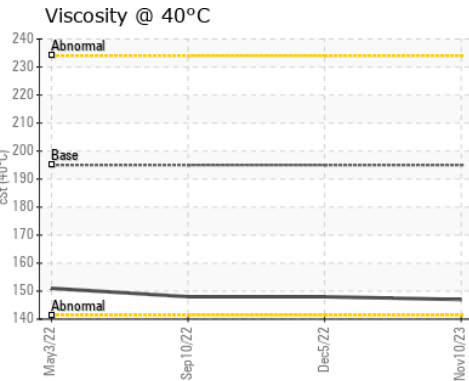
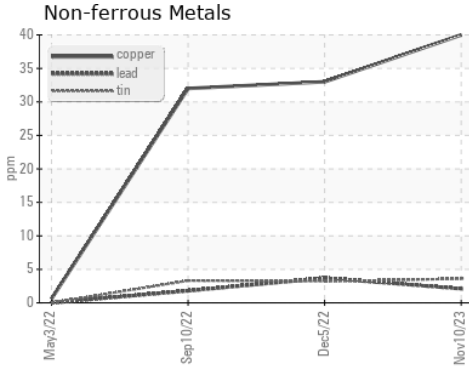
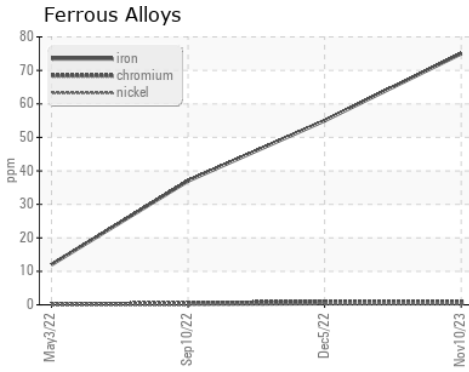


| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 195 | 147 | 148 | 148 |

| 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. : WC0821766 **Received** : 20 Nov 2023
Lab Number : 06012745 **Diagnosed** : 22 Nov 2023
Unique Number : 10751889 **Diagnostician** : Jonathan Hester
Test Package : CONST

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS
 US 67213
 Contact: SHAWN SOUTH
 shawn.south@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)

T: x:
F: x: