

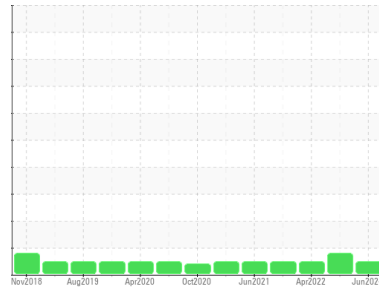


OIL ANALYSIS REPORT



Area
COLORADO/443/EG - LOADER
 Machine Id
47.11L [COLORADO^443^EG - LOADER]
 Component
Front Differential
 Fluid
MOBIL MOBILTRANS AST 30 (--- 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 fluid.

Fluid Condition

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

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WC0928757 | WC0859728 | WC0672247 |
| Sample Date | Client Info | | 13 Jun 2024 | 23 Oct 2023 | 28 Apr 2022 |
| Machine Age | hrs | Client Info | 8555 | 8014 | 6066 |
| Oil Age | hrs | Client Info | 541 | 0 | 4073 |
| Oil Changed | Client Info | | Not Chngd | Changed | Not Chngd |
| Sample Status | | | NORMAL | ATTENTION | 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 | 332 | 420 | 159 |
| Chromium | ppm | ASTM D5185m >3 | 1 | 2 | 1 |
| Nickel | ppm | ASTM D5185m >3 | 1 | <1 | 0 |
| Titanium | ppm | ASTM D5185m >2 | <1 | 0 | <1 |
| Silver | ppm | ASTM D5185m >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >30 | 3 | 4 | 3 |
| Lead | ppm | ASTM D5185m >13 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m >103 | 19 | 25 | 5 |
| Tin | ppm | ASTM D5185m >5 | <1 | <1 | 0 |
| Antimony | ppm | ASTM D5185m >5 | --- | --- | --- |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | <1 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|-------------|----------|----------|
| Boron | ppm | ASTM D5185m | 28 | 28 | 36 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | 3 | 3 | 1 |
| Magnesium | ppm | ASTM D5185m | 12 | 11 | 11 |
| Calcium | ppm | ASTM D5185m | 2881 | 2374 | 2989 |
| Phosphorus | ppm | ASTM D5185m | 1093 | 977 | 1003 |
| Zinc | ppm | ASTM D5185m | 1313 | 1206 | 1212 |
| Sulfur | ppm | ASTM D5185m | 6041 | 5036 | 4420 |

CONTAMINANTS

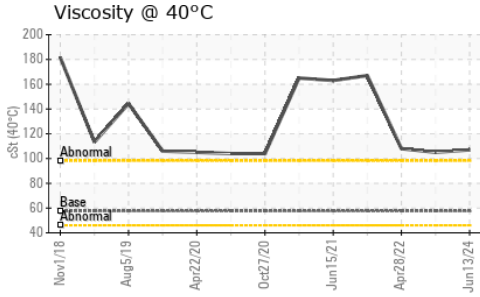
| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m >100 | 9 | 12 | 11 |
| Sodium | ppm | ASTM D5185m | 5 | 6 | <1 |
| Potassium | ppm | ASTM D5185m >20 | 3 | 3 | 1 |

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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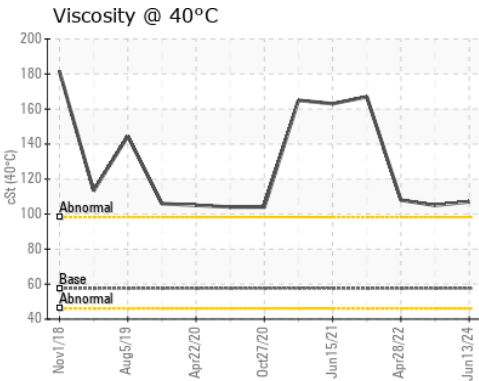
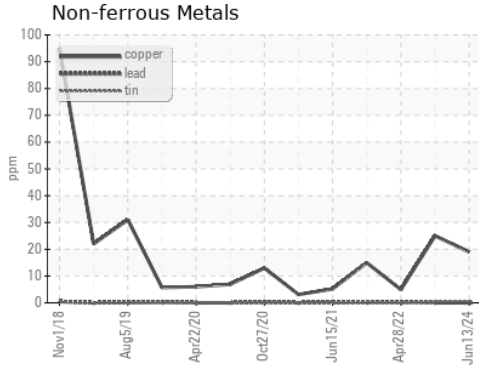
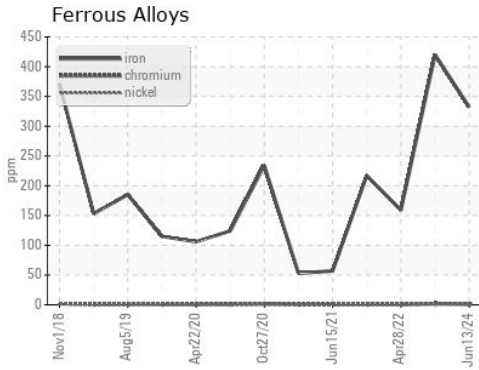


| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|------------|----------|-----|
| Visc @ 40°C | cSt | ASTM D445 | 57.6 | 107 | 105 | 108 |

| 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. : WC0928757
Lab Number : 06217193
Unique Number : 11090057
Test Package : CONST

Received : 21 Jun 2024
Tested : 24 Jun 2024
Diagnosed : 24 Jun 2024 - Don Baldrige

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)