

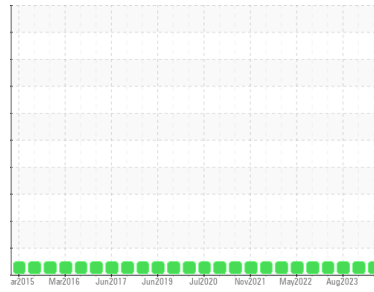


# OIL ANALYSIS REPORT



Area  
**COLORADO/443/EG - LOADER**  
 Machine Id  
**46.83L [COLORADO^443^EG - LOADER]**  
 Component  
**Main Transmission (Manual)**  
 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 |             |            | <b>WC0928713</b>   | WC0884065   | WC0823140   |
| Sample Date        | Client Info |             |            | <b>10 Jun 2024</b> | 04 Jan 2024 | 07 Aug 2023 |
| Machine Age        | hrs         | Client Info |            | <b>14231</b>       | 13703       | 13190       |
| Oil Age            | hrs         | Client Info |            | <b>9771</b>        | 9771        | 9771        |
| Oil Changed        | Client Info |             |            | <b>Not Chngd</b>   | Not Chngd   | Not Chngd   |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | NORMAL      |

| CONTAMINATION |           | method | limit/base | current    | history1 | history2 |
|---------------|-----------|--------|------------|------------|----------|----------|
| Water         | WC Method |        | >0.1       | <b>NEG</b> | NEG      | NEG      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >200       | <b>15</b>    | 8        | 6        |
| Chromium    | ppm | ASTM D5185m | >5         | <b>&lt;1</b> | 0        | 0        |
| Nickel      | ppm | ASTM D5185m | >5         | <b>0</b>     | 0        | 0        |
| Titanium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | 0        |
| Silver      | ppm | ASTM D5185m | >7         | <b>0</b>     | 0        | 0        |
| Aluminum    | ppm | ASTM D5185m | >25        | <b>2</b>     | 2        | 4        |
| Lead        | ppm | ASTM D5185m | >45        | <b>3</b>     | <1       | 0        |
| Copper      | ppm | ASTM D5185m | >225       | <b>8</b>     | 5        | 4        |
| Tin         | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | <1       | <1       |
| Vanadium    | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Cadmium     | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |

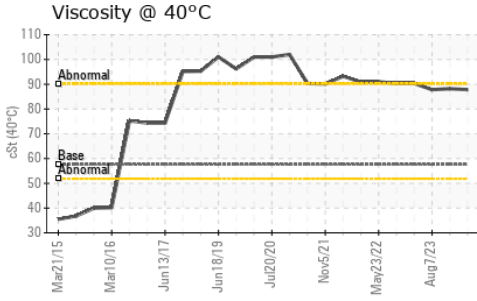
| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>8</b>     | 7        | 5        |
| Barium     | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Molybdenum | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | 0        |
| Manganese  | ppm | ASTM D5185m |            | <b>0</b>     | <1       | <1       |
| Magnesium  | ppm | ASTM D5185m |            | <b>10</b>    | 3        | 10       |
| Calcium    | ppm | ASTM D5185m |            | <b>3325</b>  | 3277     | 3665     |
| Phosphorus | ppm | ASTM D5185m |            | <b>843</b>   | 914      | 965      |
| Zinc       | ppm | ASTM D5185m |            | <b>1103</b>  | 1097     | 1178     |
| Sulfur     | ppm | ASTM D5185m |            | <b>4097</b>  | 3539     | 4713     |

| CONTAMINANTS |     | method      | limit/base | current  | history1 | history2 |
|--------------|-----|-------------|------------|----------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >125       | <b>6</b> | 4        | 4        |
| Sodium       | ppm | ASTM D5185m |            | <b>0</b> | <1       | <1       |
| Potassium    | ppm | ASTM D5185m | >20        | <b>2</b> | 0        | 0        |

| VISUAL           |        | method  | limit/base | current      | history1 | history2 |
|------------------|--------|---------|------------|--------------|----------|----------|
| White Metal      | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Precipitate      | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Silt             | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Debris           | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Sand/Dirt        | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Appearance       | scalar | *Visual | NORML      | <b>NORML</b> | NORML    | NORML    |
| Odor             | scalar | *Visual | NORML      | <b>NORML</b> | NORML    | NORML    |
| Emulsified Water | scalar | *Visual | >0.1       | <b>NEG</b>   | NEG      | NEG      |
| Free Water       | scalar | *Visual |            | <b>NEG</b>   | NEG      | NEG      |



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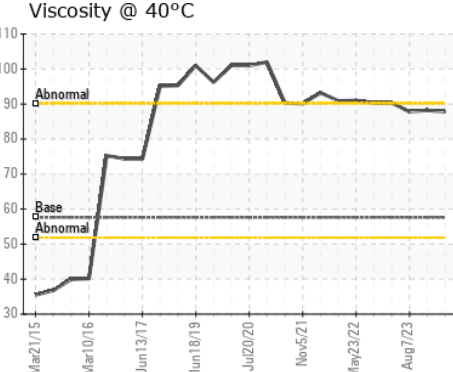
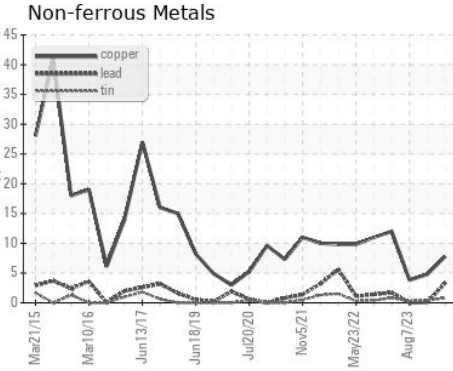
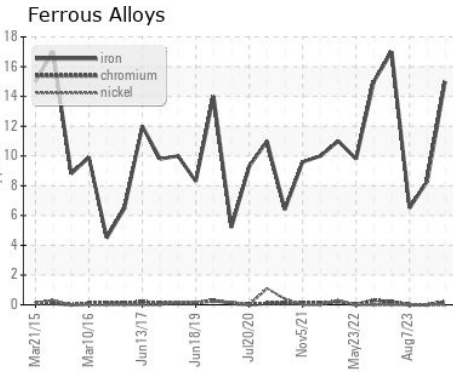
### FLUID PROPERTIES

| method      | limit/base    | current | history1    | history2 |      |
|-------------|---------------|---------|-------------|----------|------|
| Visc @ 40°C | cSt ASTM D445 | 57.6    | <b>87.8</b> | 88.2     | 87.8 |

### 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.** : WC0928713  
**Lab Number** : 06208197  
**Unique Number** : 11075658  
**Test Package** : CONST

**Received** : 12 Jun 2024  
**Tested** : 14 Jun 2024  
**Diagnosed** : 14 Jun 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)