



# PROBLEM SUMMARY

Area  
**OKLAHOMA/105**  
 Machine Id  
**08.504 [OKLAHOMA^105]**  
 Component  
**Transmission (Auto)**  
 Fluid  
**MOBIL MOBILTRANS AST 30 (--- GAL)**

Sample Rating Trend

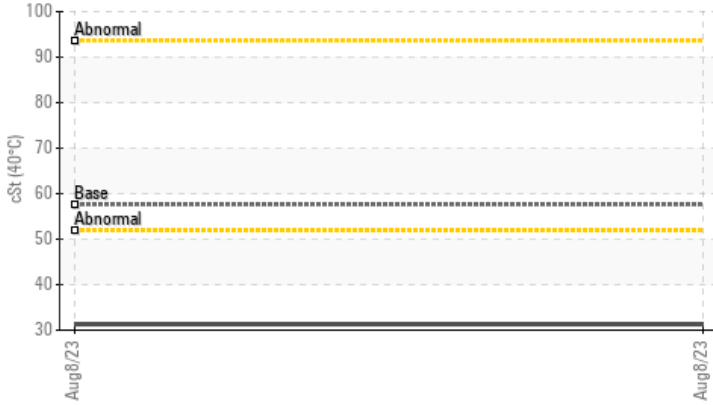


## VISCOSITY

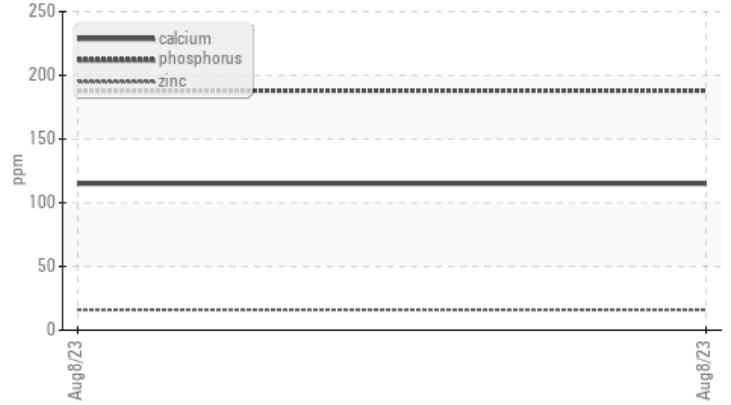


### COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



▲ Additives



### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### PROBLEMATIC TEST RESULTS

| Sample Status              | ATTENTION | --- | --- |
|----------------------------|-----------|-----|-----|
| Calcium ppm ASTM D5185m    | ▲ 115     | --- | --- |
| Phosphorus ppm ASTM D5185m | ▲ 188     | --- | --- |
| Zinc ppm ASTM D5185m       | ▲ 16      | --- | --- |
| Sulfur ppm ASTM D5185m     | ▲ 1434    | --- | --- |
| Visc @ 40°C cSt ASTM D445  | ▲ 31.3    | --- | --- |

Customer Id: SHEWIC  
 Sample No.: WC0726223  
 Lab Number: 05923838  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

| Action        | Status | Date | Done By | Description   |
|---------------|--------|------|---------|---|
| Change Fluid  | ---    | ---  | ?       | Oil and filter change at the time of sampling has been noted. |
| Change Filter | ---    | ---  | ?       | Oil and filter change at the time of sampling has been noted. |

## HISTORICAL DIAGNOSIS

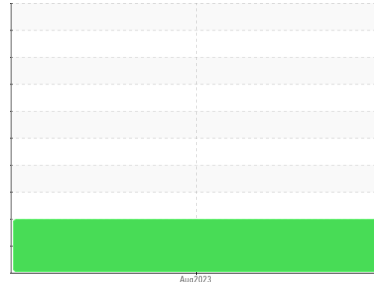


# OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Area  
**OKLAHOMA/105**  
 Machine Id  
**08.504 [OKLAHOMA^105]**  
 Component  
**Transmission (Auto)**  
 Fluid  
**MOBIL MOBILTRANS AST 30 (--- GAL)**



## DIAGNOSIS

### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. 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 fluid viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

## SAMPLE INFORMATION

| method        | limit/base      | current            | history1 | history2 |
|---------------|-----------------|--------------------|----------|----------|
| Sample Number | Client Info     | <b>WC0726223</b>   | ---      | ---      |
| Sample Date   | Client Info     | <b>08 Aug 2023</b> | ---      | ---      |
| Machine Age   | hrs Client Info | <b>3372</b>        | ---      | ---      |
| Oil Age       | hrs Client Info | <b>3372</b>        | ---      | ---      |
| Oil Changed   | Client Info     | <b>Changed</b>     | ---      | ---      |
| Sample Status |                 | <b>ATTENTION</b>   | ---      | ---      |

## WEAR METALS

| method       | limit/base       | current      | history1 | history2 |
|--------------|------------------|--------------|----------|----------|
| Iron ppm     | ASTM D5185m >230 | <b>82</b>    | ---      | ---      |
| Chromium ppm | ASTM D5185m >2   | <b>&lt;1</b> | ---      | ---      |
| Nickel ppm   | ASTM D5185m >5   | <b>&lt;1</b> | ---      | ---      |
| Titanium ppm | ASTM D5185m >2   | <b>0</b>     | ---      | ---      |
| Silver ppm   | ASTM D5185m >5   | <b>0</b>     | ---      | ---      |
| Aluminum ppm | ASTM D5185m >65  | <b>37</b>    | ---      | ---      |
| Lead ppm     | ASTM D5185m >55  | <b>40</b>    | ---      | ---      |
| Copper ppm   | ASTM D5185m >85  | <b>24</b>    | ---      | ---      |
| Tin ppm      | ASTM D5185m >5   | <b>9</b>     | ---      | ---      |
| Vanadium ppm | ASTM D5185m      | <b>0</b>     | ---      | ---      |
| Cadmium ppm  | ASTM D5185m      | <b>0</b>     | ---      | ---      |

## ADDITIVES

| method         | limit/base  | current       | history1 | history2 |
|----------------|-------------|---------------|----------|----------|
| Boron ppm      | ASTM D5185m | <b>44</b>     | ---      | ---      |
| Barium ppm     | ASTM D5185m | <b>0</b>      | ---      | ---      |
| Molybdenum ppm | ASTM D5185m | <b>&lt;1</b>  | ---      | ---      |
| Manganese ppm  | ASTM D5185m | <b>2</b>      | ---      | ---      |
| Magnesium ppm  | ASTM D5185m | <b>1</b>      | ---      | ---      |
| Calcium ppm    | ASTM D5185m | <b>▲ 115</b>  | ---      | ---      |
| Phosphorus ppm | ASTM D5185m | <b>▲ 188</b>  | ---      | ---      |
| Zinc ppm       | ASTM D5185m | <b>▲ 16</b>   | ---      | ---      |
| Sulfur ppm     | ASTM D5185m | <b>▲ 1434</b> | ---      | ---      |

## CONTAMINANTS

| method        | limit/base      | current  | history1 | history2 |
|---------------|-----------------|----------|----------|----------|
| Silicon ppm   | ASTM D5185m >20 | <b>6</b> | ---      | ---      |
| Sodium ppm    | ASTM D5185m     | <b>4</b> | ---      | ---      |
| Potassium ppm | ASTM D5185m >20 | <b>3</b> | ---      | ---      |

## VISUAL

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

## FLUID PROPERTIES

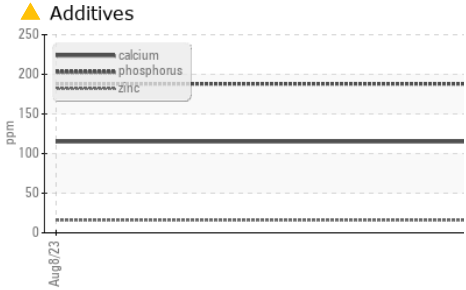
| method          | limit/base     | current       | history1 | history2 |
|-----------------|----------------|---------------|----------|----------|
| Visc @ 40°C cSt | ASTM D445 57.6 | <b>▲ 31.3</b> | ---      | ---      |



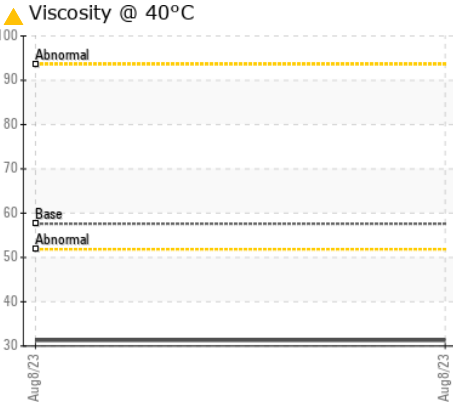
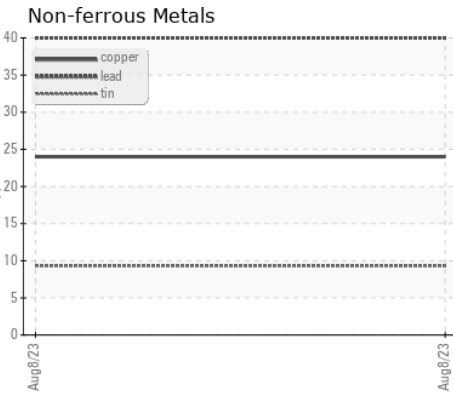
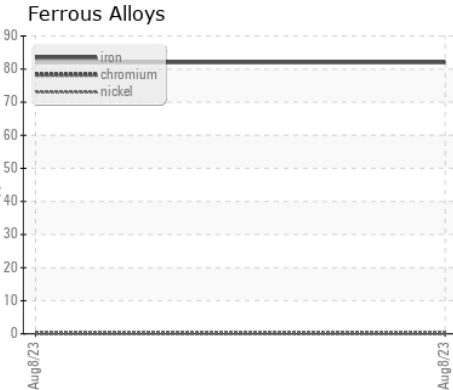
# OIL ANALYSIS REPORT



| 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.** : WC0726223      **Received** : 14 Aug 2023  
**Lab Number** : 05923838      **Diagnosed** : 15 Aug 2023  
**Unique Number** : 10603785      **Diagnostician** : Don Baldrige  
**Test Package** : CONST

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 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)