



OIL ANALYSIS REPORT

|                 |                 |
|-----------------|-----------------|
| WEAR            | <b>ABNORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b>   |
| FLUID CONDITION | <b>NORMAL</b>   |

Area  
**KANSAS/44/EG - OTHER SERVICE**  
 Machine Id  
**64.09W [KANSAS^44^EG - OTHER SERVICE]**  
 Component  
**Right Final Drive**  
 Fluid  
**MOBIL MOBILUBE HD 85W140 (--- GAL)**

**RECOMMENDATION**

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>WC0918166</b>   | WC0564742   | WCMCF02197  |
| Sample Date    |     | Client Info |           | <b>15 Apr 2024</b> | 15 Apr 2021 | 07 Aug 2014 |
| Machine Age    | hrs | Client Info |           | <b>2134</b>        | 1859        | 1443        |
| Oil Age        | hrs | Client Info |           | <b>1443</b>        | 0           | 0           |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | Not Changd  | Changed     |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | N/A         | Not Changd  |
| Sample Status  |     |             |           | <b>ABNORMAL</b>    | NORMAL      | NORMAL      |

**WEAR**

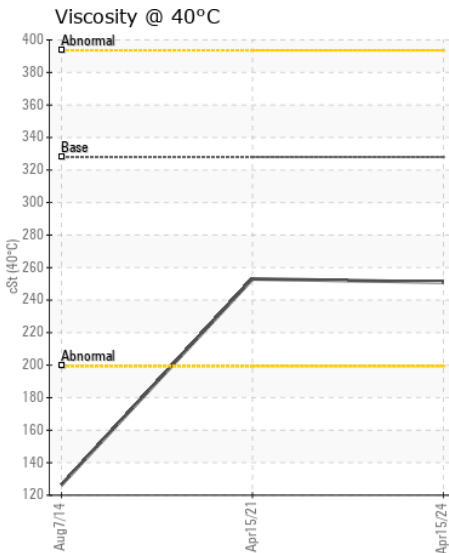
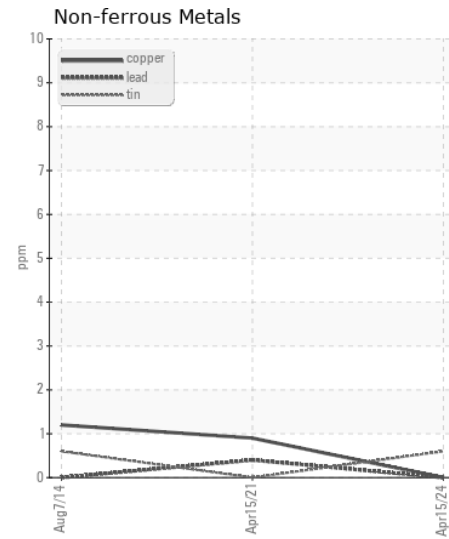
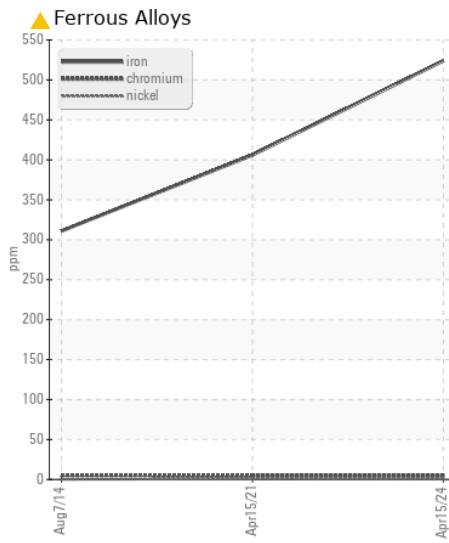
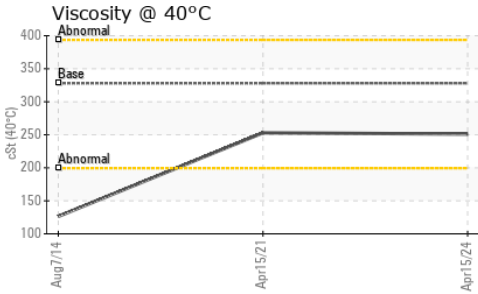
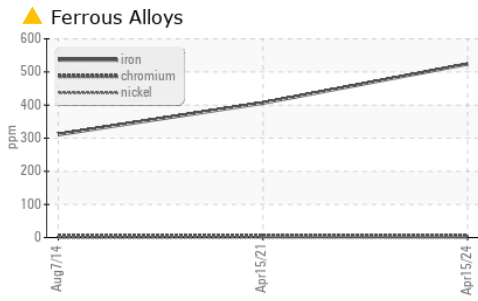
|              |        |             |      |              |       |       |
|--------------|--------|-------------|------|--------------|-------|-------|
| Iron         | ppm    | ASTM D5185m | >500 | <b>▲ 524</b> | 406   | 311   |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>5</b>     | 5     | 5     |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | <1    | 0     |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | <1    | <1    |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0     | 0     |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>1</b>     | <1    | 2     |
| Lead         | ppm    | ASTM D5185m | >25  | <b>0</b>     | <1    | 0     |
| Copper       | ppm    | ASTM D5185m | >50  | <b>0</b>     | <1    | 1     |
| Tin          | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | 0     | <1    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0     | 0     |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | MODER | MODER |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE  | NONE  |

**CONTAMINATION**

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >75   | <b>10</b>    | 7     | 25    |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>2</b>     | 12    | <1    |
| Water            |        | WC Method   | >0.2  | <b>NEG</b>   | NEG   | NEG   |
| 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     | >0.2  | <b>NEG</b>   | NEG   | NEG   |

**FLUID CONDITION**

|             |     |             |     |              |       |       |
|-------------|-----|-------------|-----|--------------|-------|-------|
| Sodium      | ppm | ASTM D5185m |     | <b>4</b>     | 3     | 12    |
| Boron       | ppm | ASTM D5185m |     | <b>68</b>    | 64    | 188   |
| Barium      | ppm | ASTM D5185m |     | <b>2</b>     | <1    | 2     |
| Molybdenum  | ppm | ASTM D5185m |     | <b>0</b>     | 0     | 0     |
| Manganese   | ppm | ASTM D5185m |     | <b>7</b>     | 6     | 9     |
| Magnesium   | ppm | ASTM D5185m |     | <b>6</b>     | 5     | <1    |
| Calcium     | ppm | ASTM D5185m |     | <b>129</b>   | 82    | 31    |
| Phosphorus  | ppm | ASTM D5185m |     | <b>865</b>   | 884   | 996   |
| Zinc        | ppm | ASTM D5185m |     | <b>118</b>   | 89    | 52    |
| Sulfur      | ppm | ASTM D5185m |     | <b>23450</b> | 17748 | 26569 |
| Visc @ 40°C | cSt | ASTM D445   | 328 | <b>251</b>   | 253   | 126.4 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0918166  
**Lab Number** : 06156341  
**Unique Number** : 10991764  
**Test Package** : CONST

**Received** : 22 Apr 2024  
**Tested** : 23 Apr 2024  
**Diagnosed** : 24 Apr 2024 - Sean Felton

**SHERWOOD CONSTRUCTION CO INC**  
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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)