



# OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR LH30M MH-13 (S/N 080364-1200)**  
Component  
**Rear Right Wheel Hub**  
Fluid  
**DURALENE Posi-Traction 80W90 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number  |     | Client Info |           | <b>DC0034598</b>   | DC0019148   | ---      |
| Sample Date    |     | Client Info |           | <b>18 Jul 2024</b> | 14 Mar 2022 | ---      |
| Machine Age    | hrs | Client Info |           | <b>4943</b>        | 3782        | ---      |
| Oil Age        | hrs | Client Info |           | <b>2000</b>        | 3000        | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | ---      |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Changed     | ---      |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | N/A         | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ABNORMAL    | ---      |

## WEAR

All component wear rates are normal.

|              |        |             |      |              |      |     |
|--------------|--------|-------------|------|--------------|------|-----|
| Iron         | ppm    | ASTM D5185m | >450 | <b>30</b>    | 57   | --- |
| Chromium     | ppm    | ASTM D5185m | >4   | <b>&lt;1</b> | <1   | --- |
| Nickel       | ppm    | ASTM D5185m | >2   | <b>&lt;1</b> | 0    | --- |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | --- |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | <1   | --- |
| Aluminum     | ppm    | ASTM D5185m | >15  | <b>1</b>     | <1   | --- |
| Lead         | ppm    | ASTM D5185m | >4   | <b>0</b>     | 0    | --- |
| Copper       | ppm    | ASTM D5185m | >75  | <b>4</b>     | 5    | --- |
| Tin          | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | --- |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | --- |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | --- |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | --- |

## CONTAMINATION

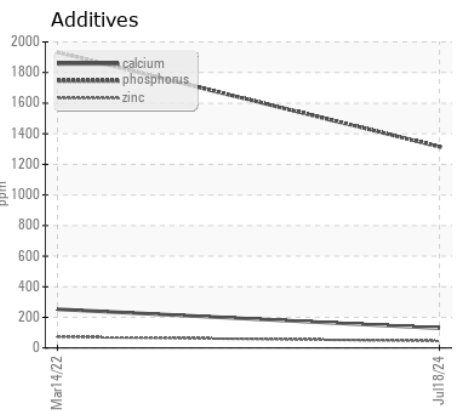
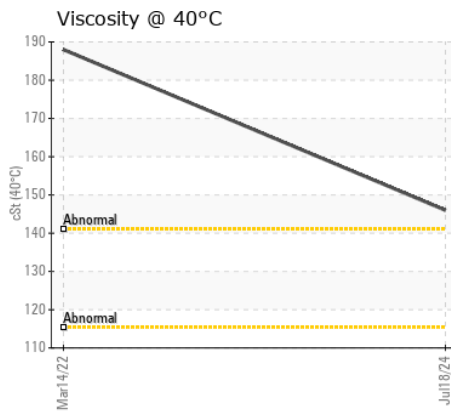
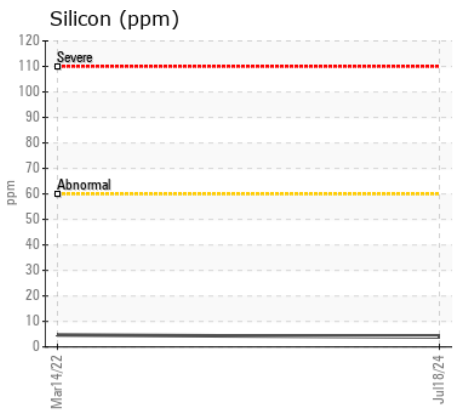
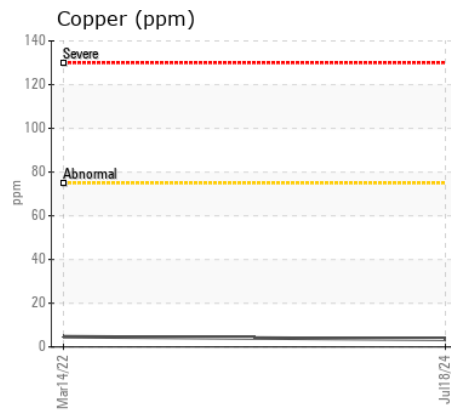
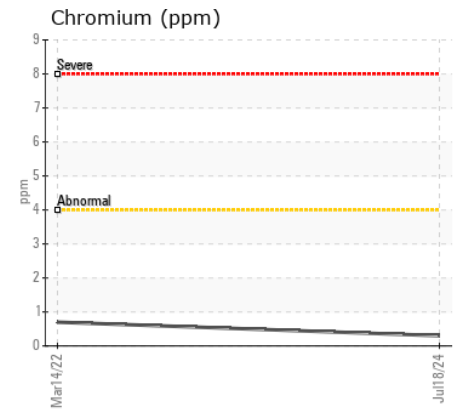
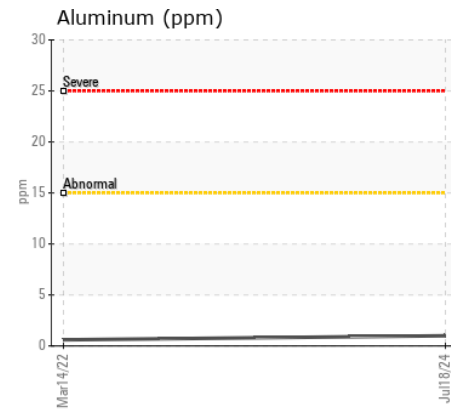
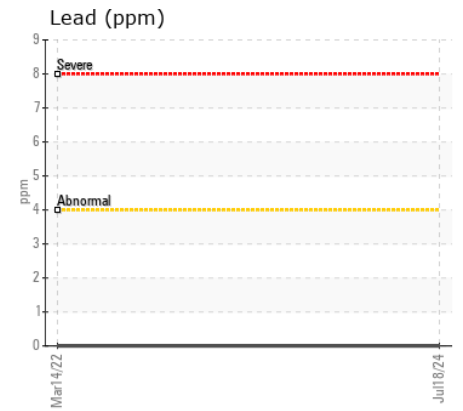
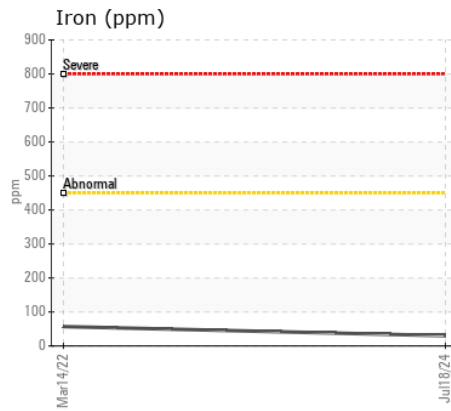
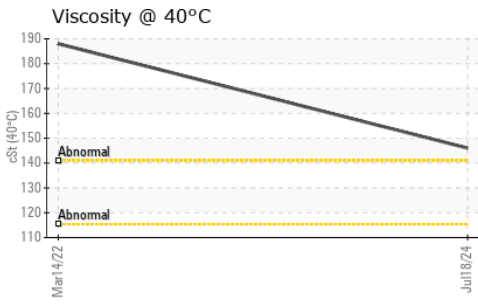
There is no indication of any contamination in the oil.

|                  |        |             |       |              |         |     |
|------------------|--------|-------------|-------|--------------|---------|-----|
| Silicon          | ppm    | ASTM D5185m | >60   | <b>4</b>     | 5       | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>1</b>     | 0       | --- |
| Water            |        | WC Method   | >0.2  | <b>NEG</b>   | NEG     | --- |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE    | --- |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | ▲ MODER | --- |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE    | --- |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | NORML   | --- |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | NORML   | --- |
| Emulsified Water | scalar | *Visual     | >0.2  | <b>NEG</b>   | NEG     | --- |

## FLUID CONDITION

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

|             |     |             |  |              |       |     |
|-------------|-----|-------------|--|--------------|-------|-----|
| Sodium      | ppm | ASTM D5185m |  | <b>2</b>     | 6     | --- |
| Boron       | ppm | ASTM D5185m |  | <b>174</b>   | 31    | --- |
| Barium      | ppm | ASTM D5185m |  | <b>0</b>     | 0     | --- |
| Molybdenum  | ppm | ASTM D5185m |  | <b>&lt;1</b> | 0     | --- |
| Manganese   | ppm | ASTM D5185m |  | <b>&lt;1</b> | 2     | --- |
| Magnesium   | ppm | ASTM D5185m |  | <b>4</b>     | 0     | --- |
| Calcium     | ppm | ASTM D5185m |  | <b>129</b>   | 253   | --- |
| Phosphorus  | ppm | ASTM D5185m |  | <b>1315</b>  | 1932  | --- |
| Zinc        | ppm | ASTM D5185m |  | <b>45</b>    | 72    | --- |
| Sulfur      | ppm | ASTM D5185m |  | <b>18753</b> | 18764 | --- |
| Visc @ 40°C | cSt | ASTM D445   |  | <b>146</b>   | 188   | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0034598 **Received** : 18 Jul 2024  
**Lab Number** : 06240744 **Tested** : 19 Jul 2024  
**Unique Number** : 11129578 **Diagnosed** : 19 Jul 2024 - Wes Davis  
**Test Package** : MOB 1

**CONSERVIT INC.**  
 PO BOX 1517  
 HAGERSTOWN, MD  
 US 21740  
 Contact: DON LONG

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)

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