



# LIEBHERR

## OIL ANALYSIS REPORT

|                 |           |
|-----------------|-----------|
| WEAR            | NORMAL    |
| CONTAMINATION   | NORMAL    |
| FLUID CONDITION | ATTENTION |



Machine Id  
**LIEBHERR L566 014293-460**  
Component  
**Splitter Box**  
Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current     | History1    | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|----------|
| Sample Number  |     | Client Info |           | LH0264553   | LHMC012249  | ---      |
| Sample Date    |     | Client Info |           | 24 May 2024 | 23 Mar 2007 | ---      |
| Machine Age    | hrs | Client Info |           | 33900       | 1022        | ---      |
| Oil Age        | hrs | Client Info |           | 0           | 0           | ---      |
| Filter Age     | hrs | Client Info |           | 0           | 0           | ---      |
| Oil Changed    |     | Client Info |           | Not Changed | Changed     | ---      |
| Filter Changed |     | Client Info |           | Not Changed | N/A         | ---      |
| Sample Status  |     |             |           | ATTENTION   | NORMAL      | ---      |

### WEAR

All component wear rates are normal.

|              |        |             |      |      |       |     |
|--------------|--------|-------------|------|------|-------|-----|
| Iron         | ppm    | ASTM D5185m | >100 | 74   | 12    | --- |
| Chromium     | ppm    | ASTM D5185m | >5   | <1   | <1    | --- |
| Nickel       | ppm    | ASTM D5185m | >5   | 0    | <1    | --- |
| Titanium     | ppm    | ASTM D5185m |      | 0    | 0     | --- |
| Silver       | ppm    | ASTM D5185m |      | 0    | 0     | --- |
| Aluminum     | ppm    | ASTM D5185m | >20  | 1    | 0     | --- |
| Lead         | ppm    | ASTM D5185m | >30  | 0    | 2     | --- |
| Copper       | ppm    | ASTM D5185m | >20  | <1   | <1    | --- |
| Tin          | ppm    | ASTM D5185m | >10  | 0    | 0     | --- |
| Vanadium     | ppm    | ASTM D5185m |      | 0    | 0     | --- |
| White Metal  | scalar | *Visual     | NONE | NONE | LIGHT | --- |
| Yellow Metal | scalar | *Visual     | NONE | NONE | NONE  | --- |

### CONTAMINATION

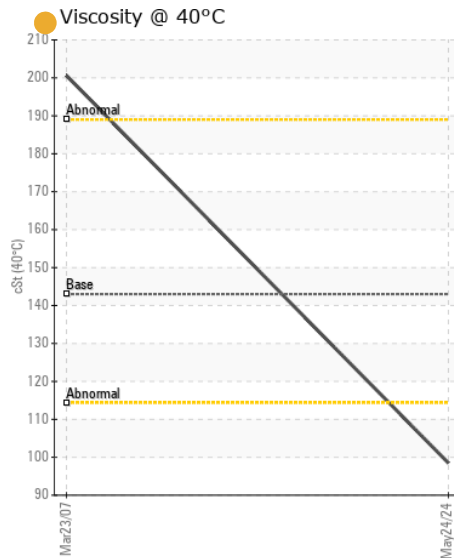
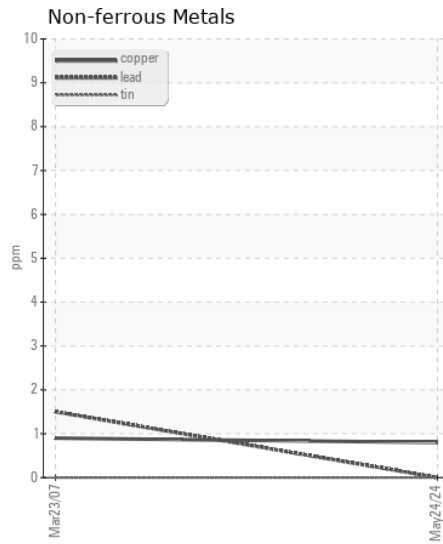
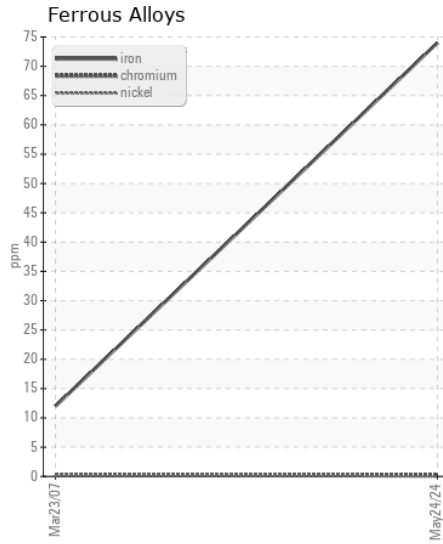
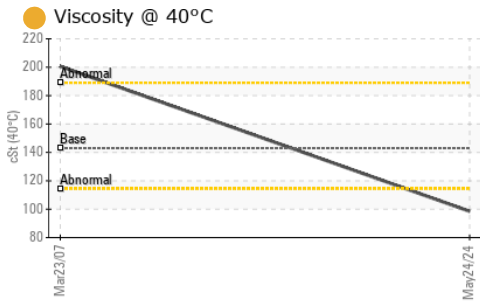
There is no indication of any contamination in the oil.

|                  |        |             |       |       |       |     |
|------------------|--------|-------------|-------|-------|-------|-----|
| Silicon          | ppm    | ASTM D5185m | >30   | 11    | 44    | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | 1     | 11    | --- |
| Water            |        | WC Method   | >0.1  | NEG   | NEG   | --- |
| Silt             | scalar | *Visual     | NONE  | NONE  | NONE  | --- |
| Debris           | scalar | *Visual     | NONE  | NONE  | NONE  | --- |
| Sand/Dirt        | scalar | *Visual     | NONE  | NONE  | NONE  | --- |
| Appearance       | scalar | *Visual     | NORML | NORML | NORML | --- |
| Odor             | scalar | *Visual     | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual     | >0.1  | NEG   | NEG   | --- |

### FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type.

|             |     |             |       |       |       |     |
|-------------|-----|-------------|-------|-------|-------|-----|
| Sodium      | ppm | ASTM D5185m | >170  | 4     | 3     | --- |
| Boron       | ppm | ASTM D5185m | 400   | 119   | 5     | --- |
| Barium      | ppm | ASTM D5185m | 200   | 0     | 3     | --- |
| Molybdenum  | ppm | ASTM D5185m | 12    | 1     | 0     | --- |
| Manganese   | ppm | ASTM D5185m |       | <1    | 2     | --- |
| Magnesium   | ppm | ASTM D5185m | 12    | 15    | 0     | --- |
| Calcium     | ppm | ASTM D5185m | 150   | 1061  | 38    | --- |
| Phosphorus  | ppm | ASTM D5185m | 1650  | 1189  | 1868  | --- |
| Zinc        | ppm | ASTM D5185m | 125   | 524   | 26    | --- |
| Sulfur      | ppm | ASTM D5185m | 22500 | 18690 | 19469 | --- |
| Visc @ 40°C | cSt | ASTM D445   | 143   | 98.5  | 200.6 | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : LH0264553

**Lab Number** : 06197084

**Unique Number** : 11059207

**Test Package** : CONST

**Received** : 31 May 2024

**Tested** : 03 Jun 2024

**Diagnosed** : 04 Jun 2024 - Don Baldrige

**DOMTAR PULP AND PAPER**

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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)