



# OIL ANALYSIS REPORT

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

Area  
**SOUTH HOLLAND**  
Machine Id  
**LIEBHERR LTM1250 AT6021 (S/N 046021)**  
Component  
**Pump Drive**  
Fluid  
**PG 220 (--- LTR)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

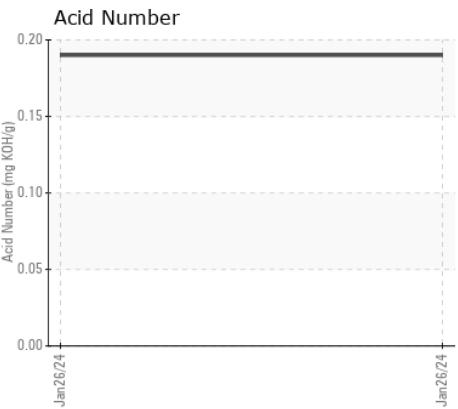
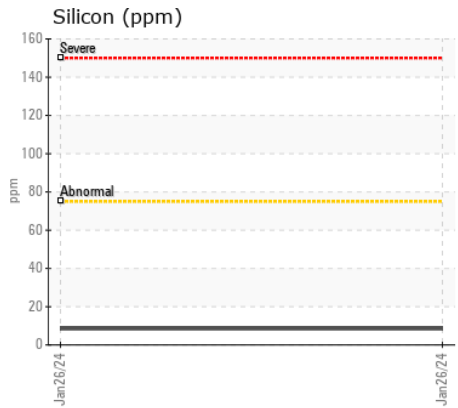
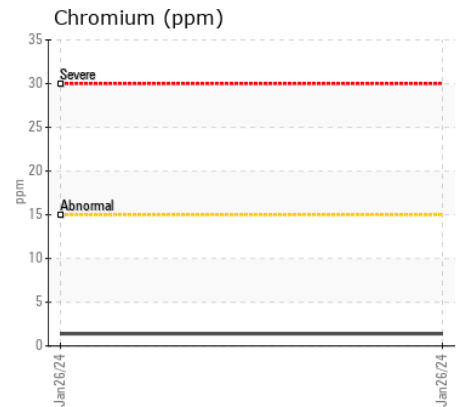
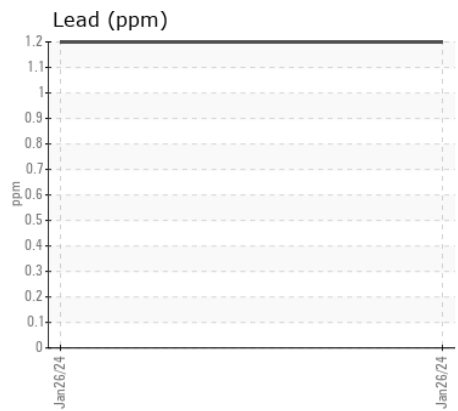
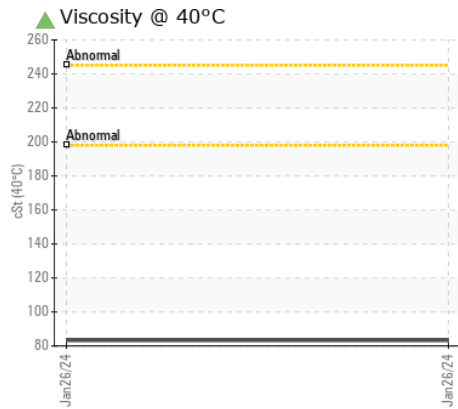
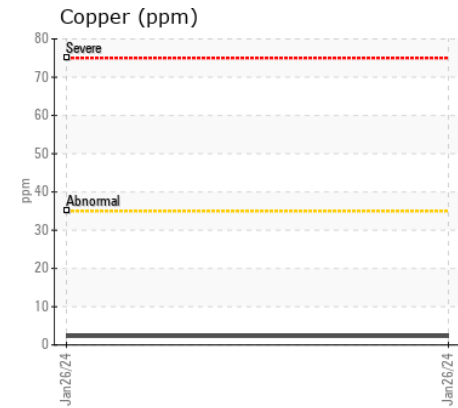
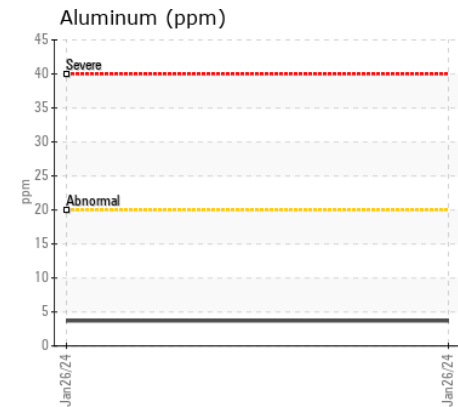
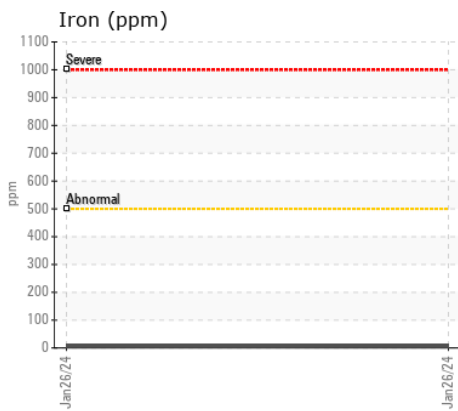
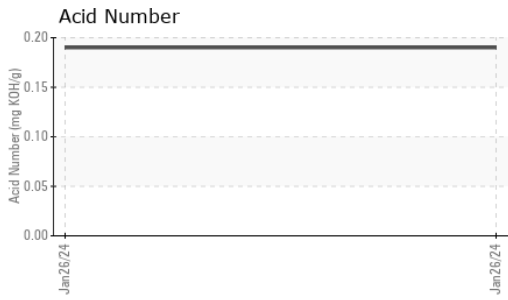
## CONTAMINATION

There is no indication of any contamination in the oil.

## FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

| Test             | UOM      | Method      | Limit/Abn | Current     | History1 | History2 |
|------------------|----------|-------------|-----------|-------------|----------|----------|
| Sample Number    |          | Client Info |           | HPL0004135  | ---      | ---      |
| Sample Date      |          | Client Info |           | 26 Jan 2024 | ---      | ---      |
| Machine Age      | hrs      | Client Info |           | 8980        | ---      | ---      |
| Oil Age          | hrs      | Client Info |           | 0           | ---      | ---      |
| Filter Age       | hrs      | Client Info |           | 0           | ---      | ---      |
| Oil Changed      |          | Client Info |           | N/A         | ---      | ---      |
| Filter Changed   |          | Client Info |           | N/A         | ---      | ---      |
| Sample Status    |          |             |           | ATTENTION   | ---      | ---      |
| Iron             | ppm      | ASTM D5185m | >500      | 6           | ---      | ---      |
| Chromium         | ppm      | ASTM D5185m | >15       | 1           | ---      | ---      |
| Nickel           | ppm      | ASTM D5185m | >10       | <1          | ---      | ---      |
| Titanium         | ppm      | ASTM D5185m |           | 0           | ---      | ---      |
| Silver           | ppm      | ASTM D5185m |           | 0           | ---      | ---      |
| Aluminum         | ppm      | ASTM D5185m | >20       | 4           | ---      | ---      |
| Lead             | ppm      | ASTM D5185m |           | 1           | ---      | ---      |
| Copper           | ppm      | ASTM D5185m | >35       | 2           | ---      | ---      |
| Tin              | ppm      | ASTM D5185m | >4        | <1          | ---      | ---      |
| Vanadium         | ppm      | ASTM D5185m |           | 0           | ---      | ---      |
| White Metal      | scalar   | *Visual     | NONE      | NONE        | ---      | ---      |
| Yellow Metal     | scalar   | *Visual     | NONE      | NONE        | ---      | ---      |
| Silicon          | ppm      | ASTM D5185m | >75       | 8           | ---      | ---      |
| Potassium        | ppm      | ASTM D5185m | >20       | 2           | ---      | ---      |
| Water            |          | WC Method   | >0.2      | NEG         | ---      | ---      |
| Silt             | scalar   | *Visual     | NONE      | NONE        | ---      | ---      |
| Debris           | scalar   | *Visual     | NONE      | NONE        | ---      | ---      |
| Sand/Dirt        | scalar   | *Visual     | NONE      | NONE        | ---      | ---      |
| Appearance       | scalar   | *Visual     | NORML     | NORML       | ---      | ---      |
| Odor             | scalar   | *Visual     | NORML     | NORML       | ---      | ---      |
| Emulsified Water | scalar   | *Visual     | >0.2      | NEG         | ---      | ---      |
| Sodium           | ppm      | ASTM D5185m |           | <1          | ---      | ---      |
| Boron            | ppm      | ASTM D5185m |           | 7           | ---      | ---      |
| Barium           | ppm      | ASTM D5185m |           | 0           | ---      | ---      |
| Molybdenum       | ppm      | ASTM D5185m |           | 0           | ---      | ---      |
| Manganese        | ppm      | ASTM D5185m |           | <1          | ---      | ---      |
| Magnesium        | ppm      | ASTM D5185m |           | 7           | ---      | ---      |
| Calcium          | ppm      | ASTM D5185m |           | 243         | ---      | ---      |
| Phosphorus       | ppm      | ASTM D5185m |           | 290         | ---      | ---      |
| Zinc             | ppm      | ASTM D5185m |           | 201         | ---      | ---      |
| Sulfur           | ppm      | ASTM D5185m |           | 11965       | ---      | ---      |
| Acid Number (AN) | mg KOH/g | ASTM D8045  |           | 0.19        | ---      | ---      |
| Visc @ 40°C      | cSt      | ASTM D445   |           | ▲ 83.29     | ---      | ---      |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : HPL0004135 **Received** : 30 Jan 2024  
**Lab Number** : 06074970 **Diagnosed** : 05 Feb 2024  
**Unique Number** : 10857061 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 2

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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)