



LIEBHERR

OIL ANALYSIS REPORT

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



Machine Id
LIEBHERR LH30M 1253-123497
Component
Splitter Box
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|----------|
| Sample Number | | Client Info | | LH0272908 | LH0212308 | --- |
| Sample Date | | Client Info | | 11 Jan 2024 | 30 Dec 2021 | --- |
| Machine Age | hrs | Client Info | | 4554 | 981 | --- |
| Oil Age | hrs | Client Info | | 0 | 0 | --- |
| Filter Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | Changed | Changed | --- |
| Filter Changed | | Client Info | | N/A | Changed | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|------|------|-----|
| Iron | ppm | ASTM D5185m | >100 | 28 | 13 | --- |
| Chromium | ppm | ASTM D5185m | >5 | <1 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | --- |
| Silver | ppm | ASTM D5185m | | 0 | <1 | --- |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | 0 | --- |
| Lead | ppm | ASTM D5185m | >30 | 0 | <1 | --- |
| Copper | ppm | ASTM D5185m | >20 | <1 | 1 | --- |
| Tin | ppm | ASTM D5185m | >10 | 0 | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

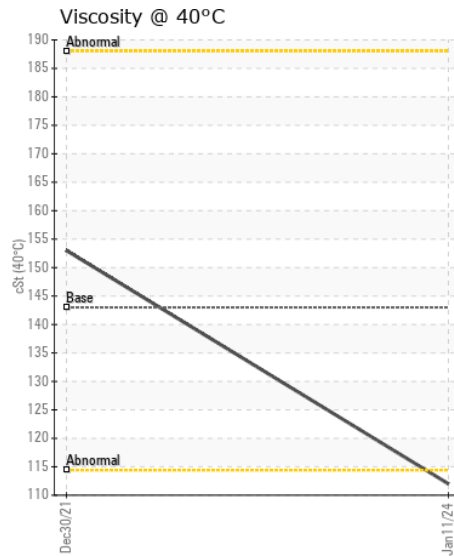
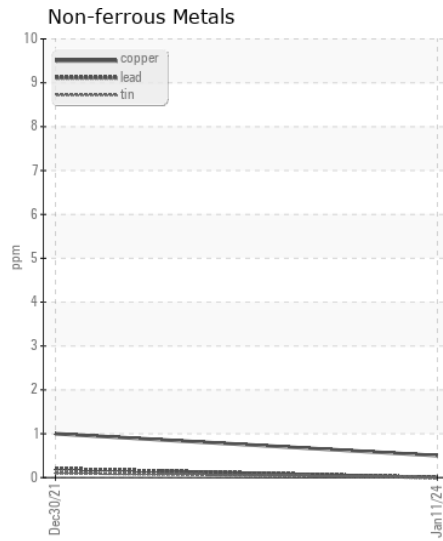
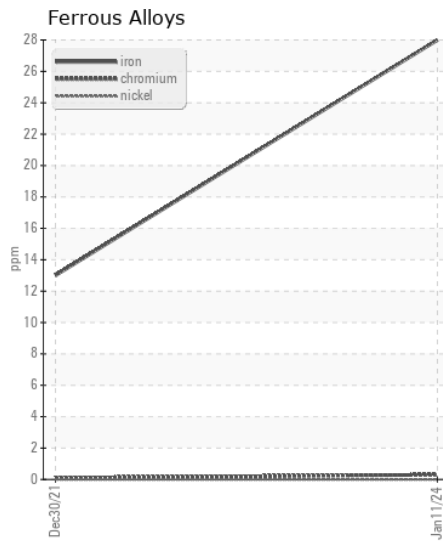
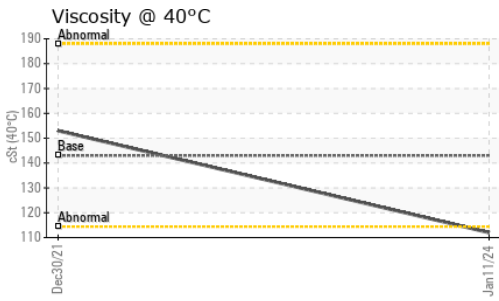
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|-------|-------|-----|
| Silicon | ppm | ASTM D5185m | >30 | 3 | 3 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 2 | <1 | --- |
| 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 condition of the oil is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|-------|-------|-------|-----|
| Sodium | ppm | ASTM D5185m | >170 | 0 | 2 | --- |
| Boron | ppm | ASTM D5185m | 400 | 15 | 61 | --- |
| Barium | ppm | ASTM D5185m | 200 | 3 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 12 | 2 | <1 | --- |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | 12 | 44 | 2 | --- |
| Calcium | ppm | ASTM D5185m | 150 | 125 | 15 | --- |
| Phosphorus | ppm | ASTM D5185m | 1650 | 492 | 963 | --- |
| Zinc | ppm | ASTM D5185m | 125 | 70 | 27 | --- |
| Sulfur | ppm | ASTM D5185m | 22500 | 20287 | 23487 | --- |
| Visc @ 40°C | cSt | ASTM D445 | 143 | 112 | 153 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LH0272908 **Recieved** : 17 Jan 2024
Lab Number : 06063176 **Diagnosed** : 18 Jan 2024
Unique Number : 10834558 **Diagnostician** : Wes Davis
Test Package : CONST

SPARTAN RECYCLING
 3071 HOWARD ST
 SPARTANBURG, SC
 US 29303

Contact: SERVICE MANAGER

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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F: