



LIEBHERR

OIL ANALYSIS REPORT

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



Machine Id
LIEBHERR L566 077757-1758
Component
Transmission (Manual)
Fluid
LIEBHERR GEAR MF 80W (55 LTR)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as LIEBHERR GEAR MF 80W, however, a fluid match indicates that this fluid is SAE 75W80 Tractor TDH Fluid. Please confirm the fluid type and grade on your next sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number | | Client Info | | LH0288081 | --- | --- |
| Sample Date | | Client Info | | 10 May 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 556 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | N/A | --- | --- |
| Sample Status | | | | NORMAL | --- | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|---------------|------|------|-----|-----|
| Iron | ppm | ASTM D5185(m) | >200 | 13 | --- | --- |
| Chromium | ppm | ASTM D5185(m) | >5 | 0 | --- | --- |
| Nickel | ppm | ASTM D5185(m) | >5 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185(m) | | 0 | --- | --- |
| Silver | ppm | ASTM D5185(m) | >7 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >25 | 1 | --- | --- |
| Lead | ppm | ASTM D5185(m) | >45 | 0 | --- | --- |
| Copper | ppm | ASTM D5185(m) | >225 | 2 | --- | --- |
| Tin | ppm | ASTM D5185(m) | >10 | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | | 0 | --- | --- |
| White Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- | --- |

CONTAMINATION

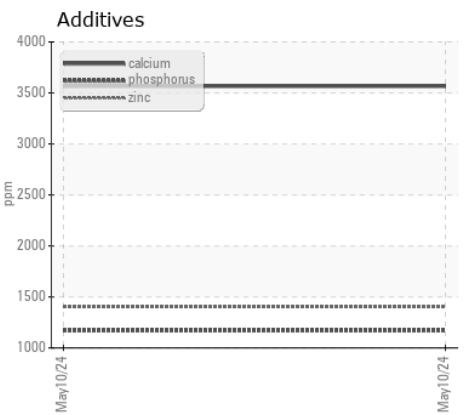
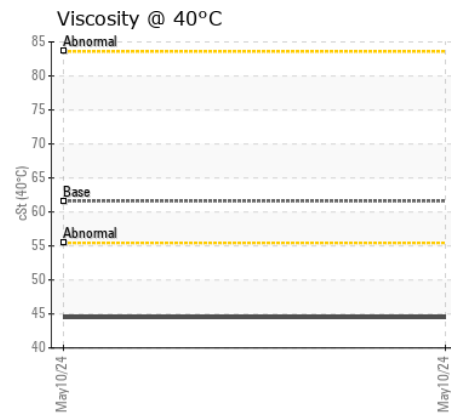
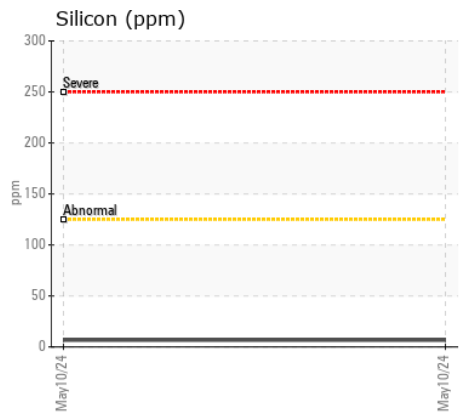
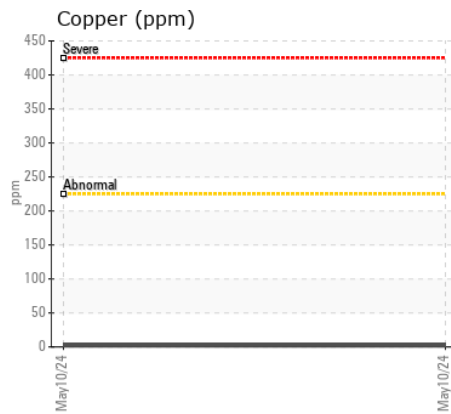
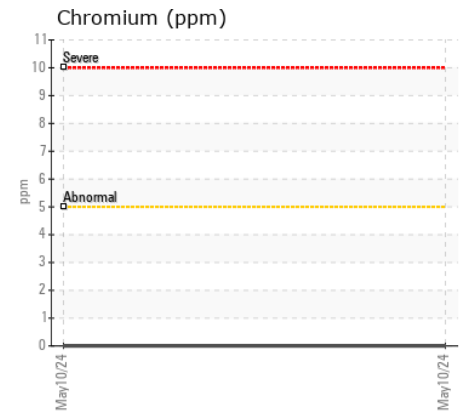
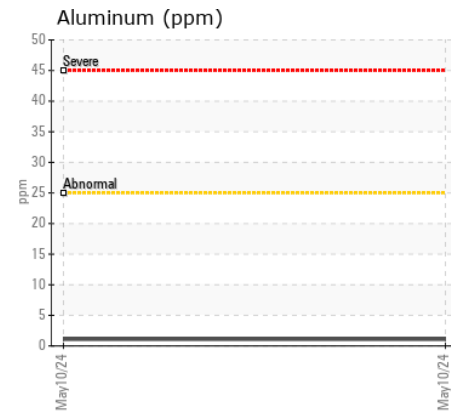
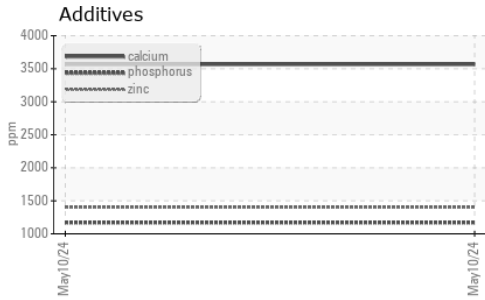
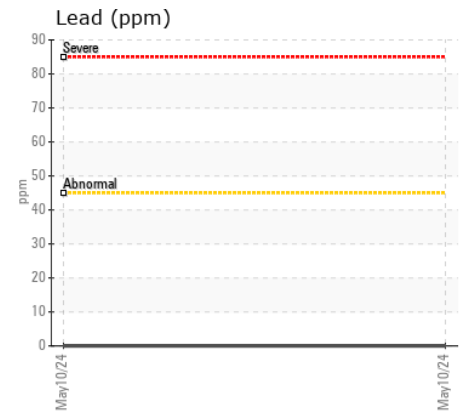
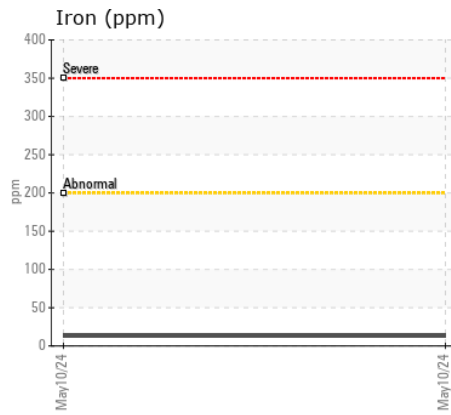
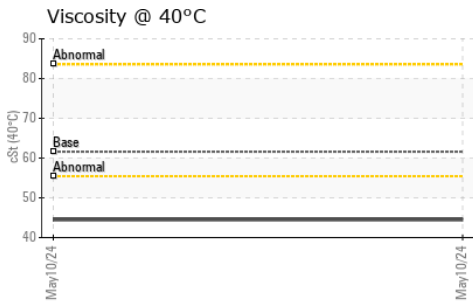
There is no indication of any contamination in the fluid.

| | | | | | | |
|------------------|--------|---------------|-------|-------|-----|-----|
| Silicon | ppm | ASTM D5185(m) | >125 | 7 | --- | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | 2 | --- | --- |
| Water | | WC Method | >0.1 | 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* | >0.1 | NEG | --- | --- |

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 75W80 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the fluid is acceptable for the time in service.

| | | | | | | |
|-------------|-----|---------------|------|------|-----|-----|
| Sodium | ppm | ASTM D5185(m) | | 11 | --- | --- |
| Boron | ppm | ASTM D5185(m) | | 103 | --- | --- |
| Barium | ppm | ASTM D5185(m) | | <1 | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) | | 0 | --- | --- |
| Manganese | ppm | ASTM D5185(m) | | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185(m) | | 7 | --- | --- |
| Calcium | ppm | ASTM D5185(m) | | 3566 | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) | | 1171 | --- | --- |
| Zinc | ppm | ASTM D5185(m) | | 1401 | --- | --- |
| Sulfur | ppm | ASTM D5185(m) | | 3896 | --- | --- |
| Visc @ 40°C | cSt | ASTM D7279(m) | 61.6 | 44.5 | --- | --- |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0288081 **Received** : 17 May 2024
Lab Number : 02636383 **Tested** : 21 May 2024
Unique Number : 5785545 **Diagnosed** : 21 May 2024 - Kevin Marson
Test Package : MOB 1

Abbycel Substrate Ltd.
 3545 Ross Road
 Abbotsford, BC
 CA V4X 1M6
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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