

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L538 055489-1559 - Rear Right Wheel Hub

Sample No: LH0273554

Oil Type: LIEBHERR GEAR BASIC 90 LS



Sample Information

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | LH0273554 | --- | --- | --- |
| Sample Date | 08 May 2024 | --- | --- | --- |
| Machine Hours | 4169 | --- | --- | --- |
| Oil Hours | 4169 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | ABNORMAL | --- | --- | --- |

CHESAPEAKE BAY

2201 MINGEE DR.

HAMPTON, VA

US 23661

Contact: SERVICE MANAGER



Oil Condition

| | | | | | |
|-------------|-----|-------|-----|-----|-----|
| Visc @ 40°C | cSt | ● 189 | --- | --- | --- |
|-------------|-----|-------|-----|-----|-----|

T: (757)827-4778

F: (757)827-0978



Contamination

| | | | | | |
|-----------|-----|------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Silicon | ppm | ● 22 | --- | --- | --- |
| Sodium | ppm | ● 2 | --- | --- | --- |
| Potassium | ppm | ● 2 | --- | --- | --- |

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.



Wear Metals

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | ● 116 | --- | --- | --- |
| Copper | ppm | ● <1 | --- | --- | --- |
| Lead | ppm | ● <1 | --- | --- | --- |
| Tin | ppm | <1 | --- | --- | --- |
| Aluminum | ppm | ● 2 | --- | --- | --- |
| Chromium | ppm | ● 1 | --- | --- | --- |
| Molybdenum | ppm | ● 0 | --- | --- | --- |
| Nickel | ppm | ● 0 | --- | --- | --- |
| Titanium | ppm | <1 | --- | --- | --- |
| Silver | ppm | 0 | --- | --- | --- |
| Manganese | ppm | ● 4 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |



Additives

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | 38 | --- | --- | --- |
| Magnesium | ppm | ● 4 | --- | --- | --- |
| Zinc | ppm | ● 63 | --- | --- | --- |
| Phosphorus | ppm | ● 2042 | --- | --- | --- |
| Barium | ppm | ● 0 | --- | --- | --- |
| Boron | ppm | ● 3 | --- | --- | --- |

Depot: CHEHAMLH

Unique No: 11075614

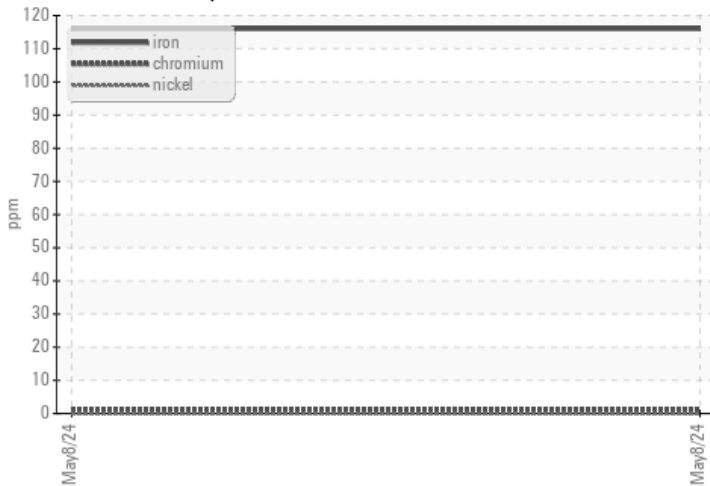
Signed: Don Baldrige

Report Date: 14 Jun 2024

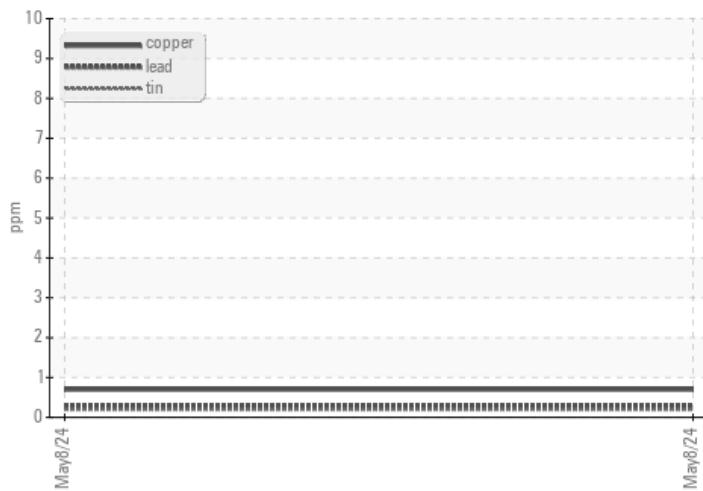


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

