

LIEBHERR

CONSTRUCTION EQUIPMENT



[[ECO BLOCK]] LIEBHERR L566 032676-1168 - Front Differenti

Sample No: LH0273345

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH0273345 | LH0254571 | LHMC94895 | LHMC87680 |
| Sample Date | 26 Feb 2024 | 16 Aug 2023 | 30 Oct 2018 | 14 Jul 2014 |
| Machine Hours | 20859 | 19833 | 14366 | 2540 |
| Oil Hours | 1000 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | N/A |
| Sample Status | NORMAL | NORMAL | SEVERE | ABNORMAL |

FINKBINER EQUIPMENT CO.

15 W 400 N FRONTAGE RD

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US 60527

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OIL CONDITION

| | | | | | |
|-------------|-----|-----|-----|-------|-------|
| Visc @ 40°C | cSt | 136 | 130 | 165.3 | 179.4 |
|-------------|-----|-----|-----|-------|-------|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|-----|-----|-----|-----|
| Silicon | ppm | 33 | 40 | 192 | 26 |
| Sodium | ppm | 3 | 6 | 6 | 7 |
| Potassium | ppm | <1 | <1 | 0 | 1 |

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|-----|-----|------|-----|
| Iron | ppm | 426 | 412 | 5484 | 573 |
| Copper | ppm | 2 | 3 | 29 | 13 |
| Lead | ppm | 0 | 0 | <1 | 6 |
| Tin | ppm | 2 | 0 | 0 | 0 |
| Aluminum | ppm | 3 | 7 | 20 | 3 |
| Chromium | ppm | 20 | 15 | 115 | 8 |
| Molybdenum | ppm | 34 | 41 | 211 | 136 |
| Nickel | ppm | <1 | 0 | 6 | <1 |
| Titanium | ppm | <1 | 0 | <1 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 4 | 4 | 60 | 9 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-----|------|------|------|
| Calcium | ppm | 13 | 7 | 26 | 12 |
| Magnesium | ppm | 0 | 1 | 9 | 19 |
| Zinc | ppm | 1 | 0 | 36 | 14 |
| Phosphorus | ppm | 989 | 2284 | 1337 | 2391 |
| Barium | ppm | 0 | 0 | 5 | 0 |
| Boron | ppm | 53 | 211 | 2 | 12 |

Depot: LEC0033

Unique No: 10950675

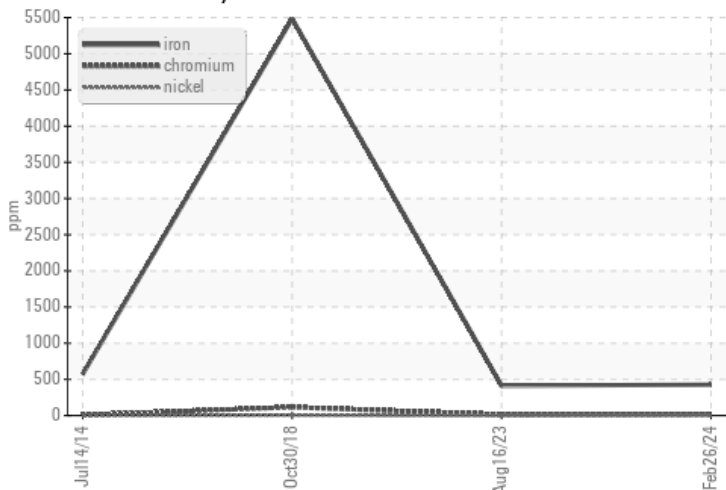
Signed: Don Baldrige

Report Date: 01 Apr 2024

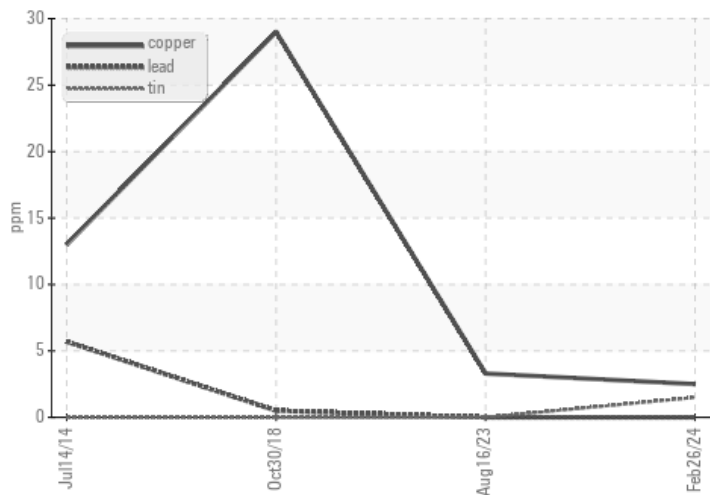


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

