

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 137429 - Rear Axle

Sample No: LH0247028

Oil Type: GEAR OIL SAE 75W90



CMI - COMBINED METAL INDUSTRIES
 505 GARY RAY DRIVE
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SAMPLE INFORMATION

| Sample Number | LH0247028 | LH0251878 | LH0247242 | LH0247243 |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date | 11 Jun 2023 | 23 Feb 2023 | 02 Dec 2022 | 02 Dec 2022 |
| Machine Hours | 5689 | 4360 | 3290 | 3290 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |



OIL CONDITION

| Visc @ 40°C | cSt | 103 | 101 | 101 | 101 |
|-------------|-----|-----|-----|-----|-----|
| | | | | | |



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|-----|-----|-----|-----|
| Silicon | ppm | 2 | 2 | 2 | 2 |
| Sodium | ppm | 1 | <1 | 1 | <1 |
| Potassium | ppm | <1 | 0 | <1 | <1 |



WEAR METALS

| | | | | | |
|------------|-----|----|----|----|----|
| Iron | ppm | 7 | 6 | 8 | 1 |
| Copper | ppm | 9 | 5 | 12 | 12 |
| Lead | ppm | 0 | <1 | <1 | <1 |
| Tin | ppm | 0 | 0 | 0 | 0 |
| Aluminum | ppm | 0 | <1 | 0 | 0 |
| Chromium | ppm | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | 0 | 0 | 0 | 0 |
| Nickel | ppm | 0 | 0 | <1 | 0 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | <1 |
| Manganese | ppm | <1 | 0 | <1 | 0 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 11 | 13 | 22 | 15 |
| Magnesium | ppm | 1 | 2 | 2 | 2 |
| Zinc | ppm | 13 | 13 | 13 | 11 |
| Phosphorus | ppm | 1355 | 1346 | 1331 | 1330 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 301 | 302 | 310 | 316 |

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.

Depot: COMWES
 Unique No: 5592635
 Signed: Wes Davis
 Report Date: 12 Jun 2023



GRAPHS

