

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40C 123508-1527 - Left Final Drive

Sample No: LH0175664

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

| Sample Number | LH0175664 | LH0175655 | LH0175646 | LH0175637 |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date | 08 Mar 2023 | 27 Oct 2022 | 14 Dec 2021 | 03 May 2021 |
| Machine Hours | 4000 | 3000 | 1000 | 1000 |
| Oil Hours | 0 | 0 | 0 | 1000 |
| Oil Changed | N/A | N/A | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| Visc @ 40°C | cSt | 139 | 133 | 146 | 194 |
|-------------|-----|-----|-----|-----|-----|
| | | | | | |



CONTAMINATION

| Element | ppm | 8 | 6 | 2 | 1 |
|-----------|-----|---|---|---|---|
| Silicon | ppm | 8 | 6 | 2 | 1 |
| Sodium | ppm | 2 | 3 | 3 | 6 |
| Potassium | ppm | 3 | 4 | 2 | 3 |

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

| Element | ppm | 27 | 51 | 33 | 36 |
|------------|-----|----|----|----|----|
| Iron | ppm | 27 | 51 | 33 | 36 |
| Copper | ppm | <1 | <1 | <1 | <1 |
| Lead | ppm | 0 | <1 | 0 | <1 |
| Tin | ppm | <1 | 0 | 0 | 0 |
| Aluminum | ppm | <1 | <1 | 0 | <1 |
| Chromium | ppm | <1 | 1 | <1 | <1 |
| Molybdenum | ppm | 0 | 0 | <1 | 0 |
| Nickel | ppm | <1 | <1 | <1 | <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | <1 | 0 |
| Manganese | ppm | <1 | 1 | <1 | 1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| Element | ppm | 2 | 5 | 5 | 8 |
|------------|-----|-----|-----|-----|------|
| Calcium | ppm | 2 | 5 | 5 | 8 |
| Magnesium | ppm | 1 | 1 | 2 | <1 |
| Zinc | ppm | 5 | 9 | 9 | 20 |
| Phosphorus | ppm | 648 | 662 | 757 | 1239 |
| Barium | ppm | <1 | 1 | 3 | 10 |
| Boron | ppm | 1 | 2 | 3 | 4 |

Depot: DOMBUR

Unique No: 5541140

Signed: Wes Davis

Report Date: 09 Mar 2023



GRAPHS

