LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH50 1216-131191 - Front Left Wheel Hub

Sample No: LH0227822

Oil Type: GEAR OIL SAE 80W90

| SAMPLE INFORMATION | | | | | | |
|--------------------|-------------|-------------|--|--|--|--|
| Sample Number | LH0227822 | LH0227810 | | | | |
| Sample Date | 12 Oct 2023 | 08 Feb 2023 | | | | |
| Machine Hours | 1905 | 1117 | | | | |
| Oil Hours | 0 | 0 | | | | |
| Oil Changed | Changed | Changed | | | | |
| Sample Status | NORMAL | NORMAL | | | | |
| A | | | | | | |

| - Cap. | Otatao | | | | |
|--------|--------|----------------|------------|-------|------|
| | | | | | |
| 0 | OIL CO | NDITION | | | |
| Visc @ | 40°C | cSt | 132 | O 147 | |
| _ | | | | | |

| CONTAMINATION | | | | | | | |
|---------------|-----|----------|----------|--|--|--|--|
| Silicon | ppm | 8 | O 12 | | | | |
| Sodium | ppm | 7 | O <1 | | | | |
| Potassium | ppm | 3 | 4 | | | | |
| | | | | | | | |

| WEA | R METALS | 5 | | |
|------------|----------|------------|------------|------|
| Iron | ppm | 8 1 | 8 9 | |
| Copper | ppm | 10 | 9 | |
| Lead | ppm | 0 | O 0 | |
| Tin | ppm | 0 | O 0 | |
| Aluminum | ppm | 1 | O <1 | |
| Chromium | ppm | <1 | O <1 | |
| Molybdenum | ppm | <1 | O 1 | |
| Nickel | ppm | 0 | O 0 | |
| Titanium | ppm | <1 | <1 | |
| Silver | ppm | 0 | 0 | |
| Manganese | ppm | 2 | 0 2 | |
| Vanadium | ppm | 0 | 0 | |

| ADD | ITIVES | | | |
|------------|--------|--------------|------------|------|
| Calcium | ppm | 56 | 6 3 | |
| Magnesium | ppm | 5 | O 2 | |
| Zinc | ppm | 29 | 24 | |
| Phosphorus | ppm | 858 | ○ 826 | |
| Barium | ppm | 0 | O 0 | |
| Boron | ppm | () <1 | O 4 | |



KOPPERS RECOVERY RESOURCES

17961 US HIGHWAY 41 L`ANSE, MI US 49946

Contact: Service Manager

T: F:

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:KOPLANUnique No:10701545Signed:Doug BogartReport Date:20 Oct 2023

LIEBHERR







GRAPHS

