

116431-1217 - Rear Left Wheel Hub

Sample No: LH0277747

Oil Type: LIEBHERR GEAR BASIC 90 LS

SAMPLE INFORMATION

| Sample Number | LH0277747 | LH0202728 | LH0239232 | LH |
|-----------------|-------------|-------------|-------------|-------------|
| Sample Date | 08 Jan 2024 | 09 May 2023 | 29 Aug 2022 | 26 Jan 2022 |
| Machine Hours | 8104 | 7133 | 6053 | 4903 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |
| | | | | |
| | | | | |
| Visc @ 40°C cSt | 109 | 0 110 | 0 103 | 99.5 |
| ** | | | | |

| | NTAMIN/ | ATION | | | | |
|-----------|---------|-------------|------|-----|------|--|
| Water | % | NEG | NEG | NEG | NEG | |
| Silicon | ppm | 0 2 | 0 2 | 02 | 04 | |
| Sodium | ppm | ○ <1 | ◯ <1 | 0 1 | 0 1 | |
| Potassium | ppm | ○ <1 | 0 | 0 | ◯ <1 | |

| Ä | | | | | |
|------------|----------|-------------|------|------|------|
| WEA | R METALS | | | | |
| Iron | ppm | 0 11 | 9 | 8 | 22 |
| Copper | ppm | 1 4 | 0 13 | 0 13 | ◯ 30 |
| Lead | ppm | ○ <1 | ○ <1 | ◯ <1 | 01 |
| Tin | ppm | 0 | 0 | 0 | ○ <1 |
| Aluminum | ppm | ○ <1 | 0 | 0 | ○ <1 |
| Chromium | ppm | 0 | 0 | 0 | ○ <1 |
| Molybdenum | ppm | ○ <1 | ○ <1 | 0 | 0 |
| Nickel | ppm | 0 | 0 | ○ <1 | ○ <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 3 | <1 |
| Manganese | ppm | 0 | ○ <1 | ◯ <1 | ○ <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |

 ADDITIVES

 Calcium
 ppm
 21
 12

 Magnesium
 ppm
 13
 6

 Zinc
 ppm
 26
 17

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|------------|--|------|--------|-------|------------|--|
| Zinc | ppm | 26 | 0 17 | 0 12 | 23 | |
| Phosphorus | ppm | 1495 | 0 1634 | 1384 | 2179 | |
| Barium | ppm | 04 | 0 4 | 5 | 31 | |
| Boron | maa | 253 | ○ 265 | 0 308 | 282 | |

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American Iron and Metal

2555 Sheffield Road Ottawa, ON CA K1B 3V6 Contact: Dan Dupelle ddupelle@aim-rg.com T: (613)228-9380 F: (613)745-0692

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

| Depot: | BAKOTT |
|--------------|-----------|
| Unique No: | 5711756 |
| Signed: | Wes Davis |
| Report Date: | 23 Jan 20 |

Report Date: 23

5711756 Wes Davis 23 Jan 2024





GRAPHS

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