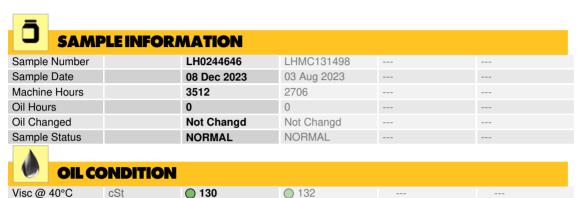
LIEBHERR

CONSTRUCTION EQUIPMENT

MS19 - Rear Left Wheel Hub

Sample No: LH0244646

Oil Type: GEAR OIL SAE 80W90



| | | U 100 | 0 | | | | | | |
|---------------|-----|--------------|------|--|--|--|--|--|--|
| | | | | | | | | | |
| CONTAMINATION | | | | | | | | | |
| Water | % | NEG | NEG | | | | | | |
| Silicon | ppm | 0 <1 | O <1 | | | | | | |
| Sodium | ppm | <1 | O 1 | | | | | | |
| Potassium | ppm | 0 | 0 | | | | | | |
| | | | | | | | | | |

| WEA | R META | LS | | |
|------------|--------|--------------|------------|------|
| Iron | ppm | 16 | 0 8 | |
| Copper | ppm | 1 | O <1 | |
| Lead | ppm | 0 | O 0 | |
| Tin | ppm | 0 | 0 | |
| Aluminum | ppm | 0 | O 0 | |
| Chromium | ppm | 0 | O 0 | |
| Molybdenum | ppm | 0 | 0 | |
| Nickel | ppm | 0 | O 0 | |
| Titanium | ppm | 0 | 0 | |
| Silver | ppm | 0 | 0 | |
| Manganese | ppm | () <1 | <1 | |
| Vanadium | ppm | 0 | 0 | |
| | | | | |

| vanadium | ppm | U | U | | | | |
|------------|-----|------------|-----|--|--|--|--|
| ADDI | | | | | | | |
| ADDITIVES | | | | | | | |
| Calcium | ppm | 62 | 66 | | | | |
| Magnesium | ppm | 0 | 2 | | | | |
| Zinc | ppm | 34 | 30 | | | | |
| Phosphorus | ppm | 964 | 941 | | | | |
| Barium | ppm | 0 | 0 | | | | |
| Boron | ppm | 257 | 294 | | | | |

Report Id: OSCLAF [WUSCAR] 06046457 (Generated: 12/29/2023 11:12:20) Rev: 1





OSCAR WINSKI CO. INC 2407 N. 9TH STREET LAFAYETTE, IN

US 47904

Contact: JAYSON FRAZIER frazierj@oscarwinski.com

T: (765)376-1230 F: x:

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: OSCLAF
Unique No: 10807065
Signed: Jonathan Hester
Report Date: 29 Dec 2023

CONSTRUCTION EQUIPMENT





GRAPHS

