



LIEBHERR A934C 045480-1007 - Rear Differential

Sample No: LH0263946

Oil Type: GEAR OIL SAE 80W90

SAMPLE INFORMATION

| Sample Number | | LH0263946 | LHMC142227 | LHMC106358 | LHMC106461 | |
|---------------|-----|-------------|-------------|-------------|-------------|--|
| Sample Date | | 19 Dec 2023 | 03 May 2019 | 02 Jun 2017 | 14 Oct 2016 | |
| Machine Hours | | 31068 | 22895 | 17893 | 16574 | |
| Oil Hours | | 2000 | 2000 | 500 | 0 | |
| Oil Changed | | Changed | Changed | Not Changd | Not Changd | |
| Sample Status | | NORMAL | NORMAL | NORMAL | NORMAL | |
| | | | | | | |
| | | | | | | |
| Visc @ 40°C | cSt | 120 | 329 | 278.8 | 276.2 | |
| 11 | | | | | | |
| | | | | | | |

| | NTAMINA | ATION | | | | |
|-----------|---------|-------|------|-----|--------------|--|
| Water | % | NEG | NEG | NEG | NEG | |
| Silicon | ppm | 03 | 0 2 | 6 | 0 4 | |
| Sodium | ppm | 0 2 | 2 | 2 | 3 | |
| Potassium | maa | 0 | 0 <1 | 0 2 | $\bigcirc 0$ | |

| Ä | | | | | |
|------------|--------|-------------|------|------|------|
| WEA WEA | R META | LS | | | |
| Iron | ppm | 0 27 | 07 | 6 | 03 |
| Copper | ppm | 0 17 | 0 2 | 03 | 01 |
| Lead | ppm | 0 🔘 | 01 | 0 | 0 |
| Tin | ppm | ○ <1 | 0 | 0 | 0 |
| Aluminum | ppm | ○ <1 | 0 | 01 | 0 |
| Chromium | ppm | 0 🔘 | 0 | ○ <1 | 0 |
| Molybdenum | ppm | 0 2 | ○ <1 | 01 | 2 |
| Nickel | ppm | 0 🔘 | 0 | 0 | 0 |
| Titanium | ppm | <1 | <1 | 3 | 4 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | ○ <1 | ○ <1 | ◯ <1 | ◯ <1 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |

0 44

 $\bigcirc 2$

0 18

0 950

0 155

 $\bigcirc 0$

0 122

6

63

0 858

○ <1

0 151

0 156

04

072

0 906

0 148

 $\bigcirc 0$

NORTHERN METAL RECYCLING

2800 PACIFIC ST N MINNEAPOLIS, MN US 55411 Contact: CHRIS GILMER chris.gilmer@emrgroup.com T: (612)305-7338 F:

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

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: | NORMINLH |
|--------------|-------------|
| Unique No: | 10844579 |
| Signed: | Wes Davis |
| Report Date: | 23 Jan 2024 |

0 124

021

079

0

0 179

0 1311

ADDITIVES

ppm

ppm

ppm

ppm

ppm

ppm

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

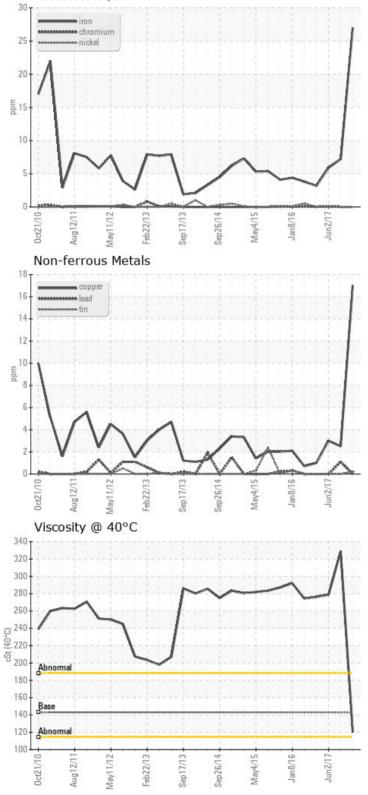
Contact/Location: CHRIS GILMER - NORMINLH





GRAPHS

Ferrous Alloys



Report Id: NORMINLH [WUSCAR] 06067902 (Generated: 01/23/2024 15:43:41) Rev: 1