

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L538 022866-433 - Rear Differential

Sample No: LH0249949

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

| Sample Number | LH0249949 | LH0224016 | LH0234292 | LH0186055 |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date | 27 Nov 2023 | 24 Mar 2023 | 12 Aug 2022 | 09 Feb 2021 |
| Machine Hours | 20000 | 19029 | 18016 | 16017 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| Visc @ 40°C | cSt | 176 | 170 | 102 | 185 |
|-------------|-----|-----|-----|-----|-----|
| | | | | | |



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|-----|-----|-----|-----|
| Silicon | ppm | 2 | 1 | 2 | 4 |
| Sodium | ppm | 1 | 1 | 2 | 2 |
| Potassium | ppm | 0 | 0 | <1 | <1 |

Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.



WEAR METALS

| | | | | | |
|------------|-----|----|----|----|-----|
| Iron | ppm | 37 | 34 | 33 | 126 |
| Copper | ppm | <1 | <1 | 1 | 2 |
| Lead | ppm | 0 | 0 | 0 | <1 |
| Tin | ppm | 0 | 0 | 0 | 0 |
| Aluminum | ppm | <1 | <1 | <1 | 1 |
| Chromium | ppm | 0 | 0 | 0 | <1 |
| Molybdenum | ppm | 25 | 6 | 6 | 12 |
| Nickel | ppm | <1 | <1 | <1 | <1 |
| Titanium | ppm | 0 | <1 | <1 | <1 |
| Silver | ppm | <1 | 0 | 0 | 0 |
| Manganese | ppm | 0 | <1 | <1 | 2 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 8 | 6 | 8 | 4 |
| Magnesium | ppm | <1 | 0 | 2 | 0 |
| Zinc | ppm | 4 | 3 | 12 | 5 |
| Phosphorus | ppm | 2168 | 2512 | 2537 | 2208 |
| Barium | ppm | <1 | 0 | 0 | 0 |
| Boron | ppm | 20 | 23 | 255 | 21 |

Depot: RMRROB
Unique No: 5684414
Signed: Wes Davis
Report Date: 28 Nov 2023



GRAPHS

