

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30 120113-1253 - Pump Drive

Sample No: LH0264788

Oil Type: GEAR OIL LS 80W90



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SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | LH0264788 | LH0264326 | LH0254037 | LH0229310 |
| Sample Date | 21 Mar 2024 | 27 Jul 2023 | 22 Mar 2023 | 14 Jun 2022 |
| Machine Hours | 10007 | 9001 | 8516 | 6479 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | ABNORMAL | NORMAL |



OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 118 | 126 | 134 | 126 |
|-------------|-----|------------|-----|-----|-----|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|----------|-----|-----|-----|
| Silicon | ppm | 2 | 2 | 1 | 1 |
| Sodium | ppm | 0 | 1 | 0 | 1 |
| Potassium | ppm | 2 | 0 | 5 | 0 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 28 | 79 | 97 | 18 |
| Copper | ppm | 1 | 0 | <1 | <1 |
| Lead | ppm | <1 | 0 | 0 | 0 |
| Tin | ppm | <1 | 0 | 0 | 0 |
| Aluminum | ppm | 2 | 0 | 2 | <1 |
| Chromium | ppm | <1 | <1 | <1 | 0 |
| Molybdenum | ppm | <1 | 6 | <1 | 1 |
| Nickel | ppm | <1 | 0 | <1 | 0 |
| Titanium | ppm | <1 | <1 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | <1 |
| Manganese | ppm | <1 | 2 | 3 | <1 |
| Vanadium | ppm | 0 | <1 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 80 | 41 | 57 | 113 |
| Magnesium | ppm | 4 | 2 | 7 | 21 |
| Zinc | ppm | 60 | 31 | 61 | 48 |
| Phosphorus | ppm | 919 | 754 | 784 | 770 |
| Barium | ppm | 0 | 0 | <1 | 0 |
| Boron | ppm | 11 | 4 | 12 | 24 |

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 LS 80W90. Please confirm.

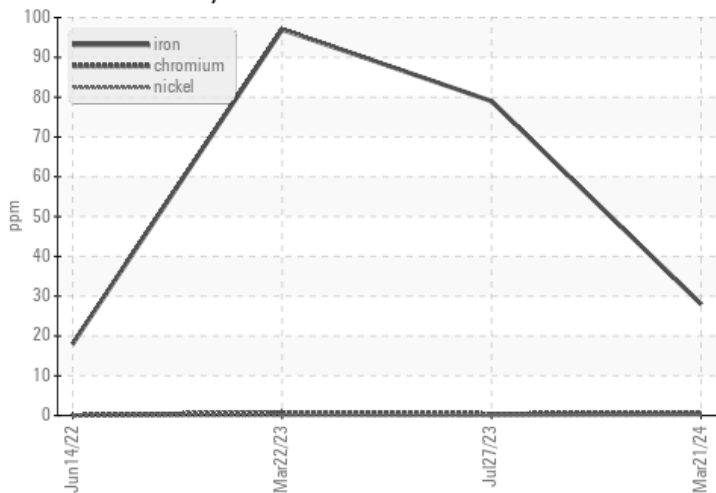
All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10953734
 Signed: Wes Davis
 Report Date: 01 Apr 2024

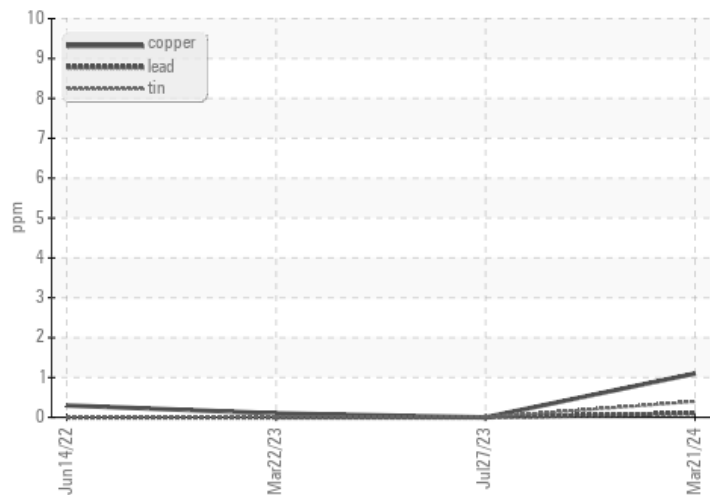


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

