

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30 115841-1253 - Front Left Wheel Hub

Sample No: LH0285577

Oil Type: SUPER S 80W90 LS



Sample Information

| | | | | |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH0285577 | LH06063158 | LH0235738 | LH0207559 |
| Sample Date | 20 Jun 2024 | 11 Jan 2024 | 28 Sep 2023 | 22 Mar 2023 |
| Machine Hours | 12685 | 11390 | 10707 | 9140 |
| Oil Hours | 500 | 0 | 0 | 2000 |
| Oil Changed | Changed | Changed | N/A | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

SPARTAN RECYCLING
 3071 HOWARD ST
 SPARTANBURG, SC
 US 29303
 Contact: SERVICE MANAGER



Oil Condition

| | | | | | |
|-------------|-----|-----|-----|-----|-----|
| Visc @ 40°C | cSt | 140 | 136 | 131 | 102 |
|-------------|-----|-----|-----|-----|-----|

T:
F:



Contamination

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|-----|-----|-----|-----|
| Silicon | ppm | 5 | 8 | 10 | 10 |
| Sodium | ppm | 3 | 2 | 3 | 2 |
| Potassium | ppm | 2 | 2 | 4 | 3 |

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.



Wear Metals

| | | | | | |
|------------|-----|----|----|----|----|
| Iron | ppm | 49 | 67 | 87 | 22 |
| Copper | ppm | 1 | 1 | 3 | <1 |
| Lead | ppm | 0 | 0 | 0 | 0 |
| Tin | ppm | 0 | 0 | 0 | 0 |
| Aluminum | ppm | 3 | 2 | 3 | 0 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | <1 | <1 | 1 | 1 |
| Nickel | ppm | <1 | 0 | 0 | 0 |
| Titanium | ppm | <1 | 0 | 0 | <1 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | 0 | 1 | 1 |
| Vanadium | ppm | 0 | 0 | <1 | 0 |



Additives

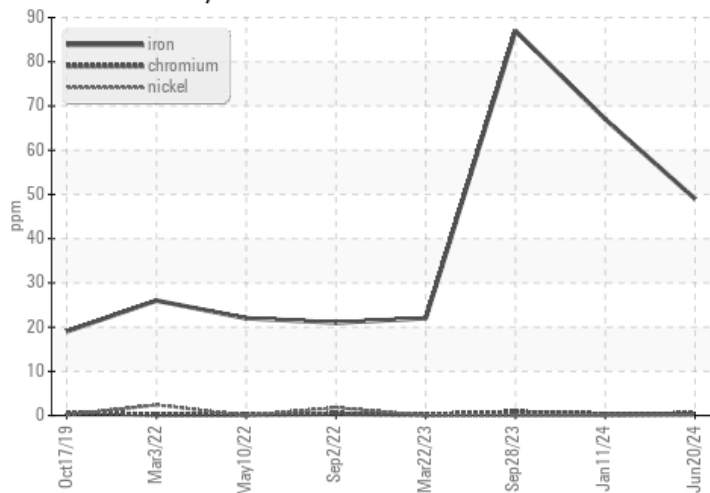
| | | | | | |
|------------|-----|-----|-----|-----|-----|
| Calcium | ppm | 55 | 148 | 337 | 72 |
| Magnesium | ppm | 6 | 11 | 26 | 8 |
| Zinc | ppm | 19 | 20 | 107 | 24 |
| Phosphorus | ppm | 332 | 442 | 549 | 301 |
| Barium | ppm | 0 | 3 | 0 | 0 |
| Boron | ppm | <1 | 0 | 0 | 1 |

Depot: SPASPALH
 Unique No: 11100846
 Signed: Wes Davis
 Report Date: 28 Jun 2024

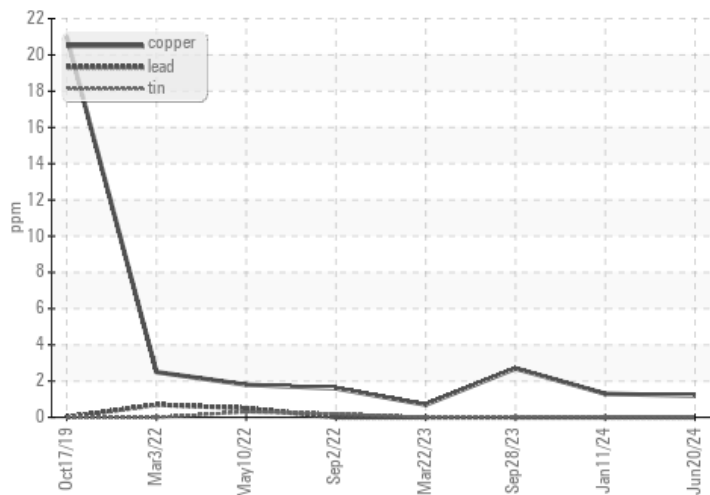


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

