

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A924 043186-1049 - Swing Drive

Sample No: LH0267722

Oil Type: LIEBHERR GEAR BASIC 90 LS



RECO EQUIPMENT INC
 8075 PRODUCTION DRIVE
 FLORENCE, KY
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Sample Information

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | LH0267722 | LH0190616 | LH0166777 | LH0166165 |
| Sample Date | 18 Apr 2024 | 15 Mar 2023 | 27 Apr 2021 | 14 Dec 2020 |
| Machine Hours | 18491 | 17465 | 15800 | 15344 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Not Changd | Not Changd |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |



Oil Condition

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 184 | 180 | 181 | 182 |
|-------------|-----|------------|-----|-----|-----|



Contamination

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



Wear Metals

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 21 | 48 | 39 | 33 |
| Copper | ppm | 17 | 25 | 27 | 23 |
| Lead | ppm | <1 | 0 | <1 | <1 |
| Tin | ppm | 1 | 0 | <1 | <1 |
| Aluminum | ppm | <1 | <1 | 0 | 0 |
| Chromium | ppm | <1 | 0 | <1 | <1 |
| Molybdenum | ppm | <1 | 0 | <1 | <1 |
| Nickel | ppm | <1 | 0 | <1 | 0 |
| Titanium | ppm | <1 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | <1 | 0 |
| Manganese | ppm | <1 | <1 | <1 | <1 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |



Additives

| | | | | | |
|------------|-----|--------------|------|------|------|
| Calcium | ppm | 36 | 38 | 26 | 27 |
| Magnesium | ppm | <1 | <1 | <1 | <1 |
| Zinc | ppm | 20 | 19 | 26 | 16 |
| Phosphorus | ppm | 2284 | 2095 | 2272 | 2247 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 0 | 1 | 9 | 4 |

Diagnosis

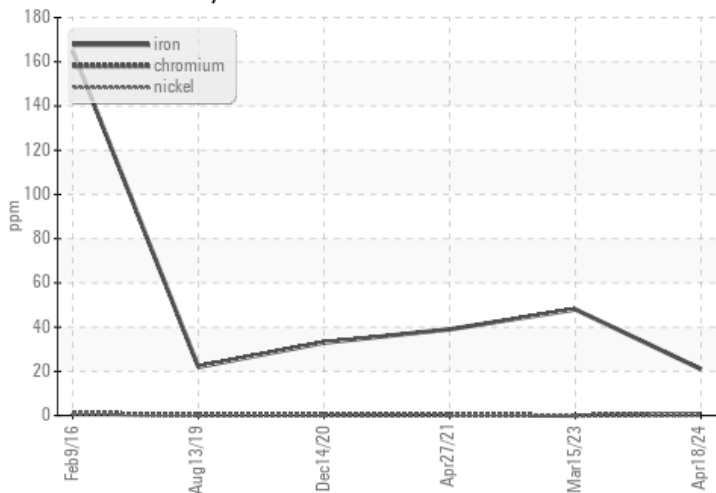
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0082
Unique No: 11019237
Signed: Sean Felton
Report Date: 10 May 2024

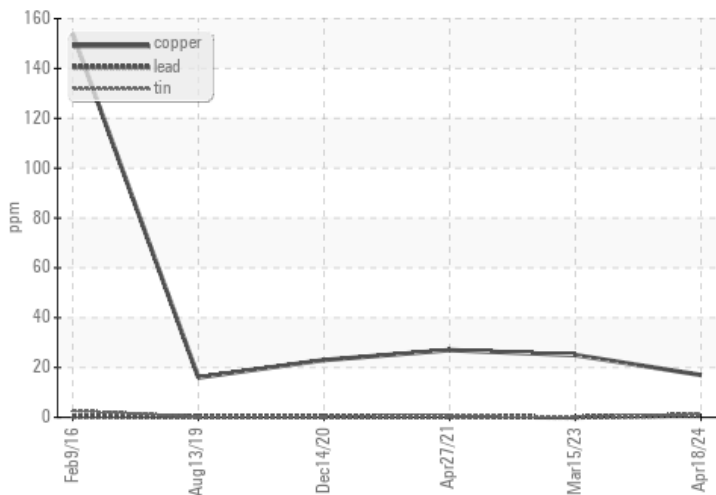


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

