

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60C 1528-132602 - Swing Drive

Sample No: LH0210071

Oil Type: TEXACO HAVOLINE GEAR OIL 80W90



STAIMAN RECYCLING
 201 HEPBURN ST
 WILLIAMSPORT, PA
 US 17701
 Contact: JOE MARKLEY
 jmarkleysr@staimanrecycling.com
 T: (570)419-5479
 F:



SAMPLE INFORMATION

| Sample Number | LH0210071 | LH0210062 | LH0210053 | LH0210044 |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date | 22 Sep 2023 | 04 Apr 2023 | 06 Jan 2023 | 24 May 2022 |
| Machine Hours | 5266 | 4009 | 3384 | 1995 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |



OIL CONDITION

| Visc @ 40°C | cSt | 124 | 129 | 173 | 148 |
|-------------|-----|-----|-----|-----|-----|
| | | | | | |



CONTAMINATION

| Element | ppm | 5 | 6 | 4 | 1 |
|-----------|-----|---|----|----|---|
| Silicon | ppm | 5 | 6 | 4 | 1 |
| Sodium | ppm | 0 | 0 | 1 | 1 |
| Potassium | ppm | 0 | <1 | <1 | 1 |



WEAR METALS

| Element | ppm | 105 | 84 | 244 | 107 |
|------------|-----|-----|----|-----|-----|
| Iron | ppm | 105 | 84 | 244 | 107 |
| Copper | ppm | 18 | 15 | 31 | 23 |
| Lead | ppm | 0 | 0 | <1 | 0 |
| Tin | ppm | 1 | <1 | <1 | <1 |
| Aluminum | ppm | 0 | 0 | <1 | 0 |
| Chromium | ppm | <1 | <1 | 2 | <1 |
| Molybdenum | ppm | 0 | <1 | 3 | 17 |
| Nickel | ppm | 0 | <1 | <1 | 0 |
| Titanium | ppm | 0 | 0 | <1 | 3 |
| Silver | ppm | 0 | 0 | <1 | 0 |
| Manganese | ppm | 1 | <1 | 2 | <1 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |



ADDITIVES

| Element | ppm | 6 | 9 | 46 | 60 |
|------------|-----|-----|-----|-----|-----|
| Calcium | ppm | 6 | 9 | 46 | 60 |
| Magnesium | ppm | 0 | 2 | 8 | 26 |
| Zinc | ppm | 8 | 18 | 46 | 41 |
| Phosphorus | ppm | 503 | 458 | 468 | 827 |
| Barium | ppm | 0 | 0 | 0 | 3 |
| Boron | ppm | <1 | 4 | 31 | 11 |

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: STAWILLH
 Unique No: 10673816
 Signed: Angela Borella
 Report Date: 04 Oct 2023



GRAPHS

