

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 152978 - Swing Drive

Sample No: LH0224301

Oil Type: LIEBHERR GEAR BASIC 90 LS



LIEBHERR CANADA LTD.
 1015 SUTTON DRIVE
 BURLINGTON, ON
 CA L7L 5Z8
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SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | LH0224301 | --- | --- | --- |
| Sample Date | 15 Feb 2024 | --- | --- | --- |
| Machine Hours | 556 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |



OIL CONDITION

| | | | | | |
|-------------|-----|-------|-----|-----|-----|
| Visc @ 40°C | cSt | ● 188 | --- | --- | --- |
|-------------|-----|-------|-----|-----|-----|



CONTAMINATION

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



WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | ● 109 | --- | --- | --- |
| Copper | ppm | ● 48 | --- | --- | --- |
| Lead | ppm | ● 2 | --- | --- | --- |
| Tin | ppm | ● 3 | --- | --- | --- |
| Aluminum | ppm | ● 1 | --- | --- | --- |
| Chromium | ppm | ● <1 | --- | --- | --- |
| Molybdenum | ppm | ● 0 | --- | --- | --- |
| Nickel | ppm | ● <1 | --- | --- | --- |
| Titanium | ppm | 0 | --- | --- | --- |
| Silver | ppm | 0 | --- | --- | --- |
| Manganese | ppm | ● <1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | 27 | --- | --- | --- |
| Magnesium | ppm | ● 2 | --- | --- | --- |
| Zinc | ppm | 21 | --- | --- | --- |
| Phosphorus | ppm | ● 2311 | --- | --- | --- |
| Barium | ppm | ● 8 | --- | --- | --- |
| Boron | ppm | ● 3 | --- | --- | --- |

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: LIEMIS
 Unique No: 5736750
 Signed: Wes Davis
 Report Date: 04 Mar 2024



GRAPHS

