

LIEBHERR

CONSTRUCTION EQUIPMENT



111446 - Crowd Winch Drive

Sample No: LH0151091

Oil Type: GEAR OIL SAE 75W90



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | LH0151091 | --- | --- | --- |
| Sample Date | 04 Jan 2024 | --- | --- | --- |
| Machine Hours | 1000 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

Liebherr Canada

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OIL CONDITION

| | | | | | |
|-------------|-----|-------|-----|-----|-----|
| Visc @ 40°C | cSt | ● 114 | --- | --- | --- |
|-------------|-----|-------|-----|-----|-----|



CONTAMINATION

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



WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | ● 68 | --- | --- | --- |
| Copper | ppm | ● <1 | --- | --- | --- |
| Lead | ppm | ● 0 | --- | --- | --- |
| Tin | ppm | ● 0 | --- | --- | --- |
| Aluminum | ppm | ● <1 | --- | --- | --- |
| Chromium | ppm | ● <1 | --- | --- | --- |
| Molybdenum | ppm | ● 0 | --- | --- | --- |
| Nickel | ppm | ● <1 | --- | --- | --- |
| Titanium | ppm | ● 0 | --- | --- | --- |
| Silver | ppm | ● 0 | --- | --- | --- |
| Manganese | ppm | ● 0 | --- | --- | --- |
| Vanadium | ppm | ● 0 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | ● 48 | --- | --- | --- |
| Magnesium | ppm | ● 2 | --- | --- | --- |
| Zinc | ppm | ● 22 | --- | --- | --- |
| Phosphorus | ppm | ● 1215 | --- | --- | --- |
| Barium | ppm | ● 0 | --- | --- | --- |
| Boron | ppm | ● 215 | --- | --- | --- |

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 SAE 75W90. 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: LIERIC

Unique No: 5709027

Signed: Wes Davis

Report Date: 10 Jan 2024



GRAPHS

