

LIEBHERR

CONSTRUCTION EQUIPMENT



[(365443)] LIEBHERR R966 054115-1783 - Left Final Drive

Sample No: LH0284951

Oil Type: LIEBHERR GEAR BASIC 90 LS



INFORMATION SUR L'ÉCHANTILLON

| | | | | |
|----------------------|-------------|-------------|-----|-----|
| Numéro d'échant. | LH0284951 | LH0281439 | --- | --- |
| Date d'échant. | 29 Jan 2024 | 28 Nov 2023 | --- | --- |
| Heures de la Machine | 2854 | 2884 | --- | --- |
| Heures de l'huile | 0 | 0 | --- | --- |
| Huile changée | Not Changd | Not Changd | --- | --- |
| Statut de l'échant. | SEVERE | SEVERE | --- | --- |

CON-DRAIN LTD.

30 FLORAL PARKWAY
CONCORD, ON
CA L4K 4R1

Contact: B BAXTER

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T:

F:



ÉTAT D'HUILE

| | | | | | |
|-----------|-----|-----|-----|-----|-----|
| Visc 40°C | cSt | 117 | 219 | --- | --- |
|-----------|-----|-----|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|-----|-------|-----|-----|
| Eau | % | NEG | 0.245 | --- | --- |
| Silicium | ppm | 450 | 2637 | --- | --- |
| Sodium | ppm | 25 | 139 | --- | --- |
| Potassium | ppm | 37 | 218 | --- | --- |



MÉTAUX D'USURE

| | | | | | |
|-----------|-----|-----|------|-----|-----|
| PQ | | 290 | 2093 | --- | --- |
| Fer | ppm | 746 | 4037 | --- | --- |
| Cuivre | ppm | <1 | 6 | --- | --- |
| Plomb | ppm | <1 | 2 | --- | --- |
| Étain | ppm | 0 | 0 | --- | --- |
| Aluminium | ppm | 101 | 597 | --- | --- |
| Chrome | ppm | 8 | 49 | --- | --- |
| Molybdène | ppm | 0 | 3 | --- | --- |
| Nickel | ppm | 3 | 17 | --- | --- |
| Titane | ppm | 5 | 36 | --- | --- |
| Argent | ppm | 0 | <1 | --- | --- |
| Manganèse | ppm | 7 | 44 | --- | --- |
| Vanadium | ppm | 0 | <1 | --- | --- |



ADDITIFS

| | | | | | |
|-----------|-----|------|------|-----|-----|
| Calcium | ppm | 289 | 1605 | --- | --- |
| Magnésium | ppm | 30 | 162 | --- | --- |
| Zinc | ppm | 12 | 22 | --- | --- |
| Phosphore | ppm | 1204 | 1123 | --- | --- |
| Baryum | ppm | <1 | 3 | --- | --- |
| Bore | ppm | 247 | 5 | --- | --- |

Diagnostic

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. PQ levels are abnormal. Iron ppm levels are abnormal. Aluminum ppm levels are noted. Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. Viscosity of sample indicates oil is within SAE 90 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: CON30CON

Unique No: 5721677

Signed: Bill Quesnel

Report Date: 01 Feb 2024



GRAPHS

