

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 136518-1253 - Splitter Box

Sample No: LH0228854

Oil Type: LIEBHERR GEAR BASIC 90 LS



CAC ENTERPRISES GROUP INC.
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SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | LH0228854 | LH0228842 | --- | --- |
| Sample Date | 05 Jun 2023 | 16 Nov 2022 | --- | --- |
| Machine Hours | 2000 | 1000 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | N/A | Changed | --- | --- |
| Sample Status | ABNORMAL | NORMAL | --- | --- |



OIL CONDITION

| | | | | | |
|-------------|-----|-------|-------|-----|-----|
| Visc @ 40°C | cSt | ● 186 | ● 194 | --- | --- |
|-------------|-----|-------|-------|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|------|------|-----|-----|
| Silicon | ppm | ● 34 | ● 17 | --- | --- |
| Sodium | ppm | ● 3 | ● 3 | --- | --- |
| Potassium | ppm | ● 2 | ● 2 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|-------|------|-----|-----|
| PQ | | ● 30 | --- | --- | --- |
| Iron | ppm | ● 118 | ● 57 | --- | --- |
| Copper | ppm | ● 7 | ● <1 | --- | --- |
| Lead | ppm | ● <1 | ● 0 | --- | --- |
| Tin | ppm | ● 0 | ● 0 | --- | --- |
| Aluminum | ppm | ● 3 | ● 2 | --- | --- |
| Chromium | ppm | ● 2 | ● <1 | --- | --- |
| Molybdenum | ppm | ● 0 | ● 0 | --- | --- |
| Nickel | ppm | ● <1 | ● 0 | --- | --- |
| Titanium | ppm | <1 | <1 | --- | --- |
| Silver | ppm | 0 | 0 | --- | --- |
| Manganese | ppm | ● 2 | ● 2 | --- | --- |
| Vanadium | ppm | 0 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|--------|-----|-----|
| Calcium | ppm | 34 | 35 | --- | --- |
| Magnesium | ppm | ● 4 | ● 3 | --- | --- |
| Zinc | ppm | 20 | 18 | --- | --- |
| Phosphorus | ppm | ● 2067 | ● 1962 | --- | --- |
| Barium | ppm | ● <1 | ● 0 | --- | --- |
| Boron | ppm | ● 1 | ● <1 | --- | --- |

Diagnosis

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. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a moderate concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: CAC241EDM
 Unique No: 5620797
 Signed: Kevin Marson
 Report Date: 15 Aug 2023



GRAPHS

