

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 153712-1253 - Front Left Wheel Hub

Sample No: LH

Oil Type: LIEBHERR GEAR BASIC 90 LS



Innovation Industrielle Boivin Inc.
 2205 de la Fonderie
 Chicoutimi, QC
 CA G7H 8B9
 Contact: Service Manager

T:
 F:



Sample Information

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | LH | LH | --- | --- |
| Sample Date | 30 Apr 2024 | 14 Dec 2023 | --- | --- |
| Machine Hours | 1001 | 500 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Changed | Changed | --- | --- |
| Sample Status | ABNORMAL | ABNORMAL | --- | --- |



Oil Condition

| | | | | | |
|-------------|-----|-----|------|-----|-----|
| Visc @ 40°C | cSt | 135 | 64.6 | --- | --- |
|-------------|-----|-----|------|-----|-----|



Contamination

| | | | | | |
|-----------|-----|-----|-----|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Silicon | ppm | 7 | 4 | --- | --- |
| Sodium | ppm | 9 | 17 | --- | --- |
| Potassium | ppm | 10 | 0 | --- | --- |



Wear Metals

| | | | | | |
|------------|-----|----|----|-----|-----|
| Iron | ppm | 59 | 42 | --- | --- |
| Copper | ppm | 5 | 9 | --- | --- |
| Lead | ppm | 0 | <1 | --- | --- |
| Tin | ppm | 0 | 0 | --- | --- |
| Aluminum | ppm | <1 | <1 | --- | --- |
| Chromium | ppm | <1 | <1 | --- | --- |
| Molybdenum | ppm | 0 | 0 | --- | --- |
| Nickel | ppm | 0 | <1 | --- | --- |
| Titanium | ppm | 0 | 0 | --- | --- |
| Silver | ppm | 0 | <1 | --- | --- |
| Manganese | ppm | 1 | <1 | --- | --- |
| Vanadium | ppm | 0 | 0 | --- | --- |



Additives

| | | | | | |
|------------|-----|------|------|-----|-----|
| Calcium | ppm | 917 | 3577 | --- | --- |
| Magnesium | ppm | 4 | 9 | --- | --- |
| Zinc | ppm | 395 | 1432 | --- | --- |
| Phosphorus | ppm | 1920 | 1130 | --- | --- |
| Barium | ppm | <1 | 2 | --- | --- |
| Boron | ppm | 21 | 105 | --- | --- |

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. Viscosity of sample indicates oil is within SAE 90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Depot: INN220CHI
 Unique No: 5774401
 Signed: Kevin Marson
 Report Date: 03 May 2024



Graphs

