

LIEBHERR

CONSTRUCTION EQUIPMENT



[ALLTERRA] LIEBHERR LH60M 65464 - Rear Left Wheel Hub

Sample No: LH0281203

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-------------|-----|
| Sample Number | LH0281203 | LH0144863 | LH | --- |
| Sample Date | 18 Jan 2024 | 31 Jul 2019 | 22 May 2019 | --- |
| Machine Hours | 17608 | 15200 | 0 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | Changed | Not Changd | N/A | --- |
| Sample Status | NORMAL | NORMAL | NORMAL | --- |

Liebherr Canada

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OIL CONDITION

| | | | | | |
|-------------|-----|-----|-----|-----|-----|
| Visc @ 40°C | cSt | 131 | 132 | 132 | --- |
|-------------|-----|-----|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|------|------|------|-----|
| Water | % | NEG | NEG | NEG | --- |
| Silicon | ppm | 1 | <1 | 1 | --- |
| Sodium | ppm | 12 | 12 | 12 | --- |
| Potassium | ppm | 1657 | 1795 | 1721 | --- |



WEAR METALS

| | | | | | |
|------------|-----|----|----|----|-----|
| Iron | ppm | 7 | 6 | 5 | --- |
| Copper | ppm | 46 | 39 | 35 | --- |
| Lead | ppm | 1 | <1 | <1 | --- |
| Tin | ppm | 0 | 0 | 0 | --- |
| Aluminum | ppm | <1 | <1 | 0 | --- |
| Chromium | ppm | 0 | <1 | 0 | --- |
| Molybdenum | ppm | 0 | <1 | <1 | --- |
| Nickel | ppm | <1 | 0 | 0 | --- |
| Titanium | ppm | 0 | 0 | 0 | --- |
| Silver | ppm | 0 | <1 | 0 | --- |
| Manganese | ppm | 0 | <1 | <1 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|-----|
| Calcium | ppm | 87 | 88 | 86 | --- |
| Magnesium | ppm | 1 | <1 | 1 | --- |
| Zinc | ppm | 34 | 34 | 31 | --- |
| Phosphorus | ppm | 492 | 497 | 484 | --- |
| Barium | ppm | 1 | 1 | <1 | --- |
| Boron | ppm | 1559 | 1648 | 1572 | --- |

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: LIERIC
 Unique No: 5720042
 Signed: Kevin Marson
 Report Date: 25 Jan 2024



GRAPHS

