

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60 119413-1528 - Pump Drive

Sample No: LH0269769

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | LH0269769 | LH0224946 | LH0224898 | LH0126850 |
| Sample Date | 21 Sep 2023 | 10 Aug 2022 | 13 May 2022 | 22 Dec 2021 |
| Machine Hours | 7643 | 6039 | 5497 | 4489 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

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 Edmonton, AB
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OIL CONDITION

| | | | | | |
|-------------|-----|-------------|------|-----|-----|
| Visc @ 40°C | cSt | 92.3 | 98.3 | 115 | 143 |
|-------------|-----|-------------|------|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|----------|---|----|----|
| Silicon | ppm | 1 | 1 | 1 | 1 |
| Sodium | ppm | 1 | 1 | 1 | 2 |
| Potassium | ppm | 1 | 0 | <1 | <1 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 10 | 8 | 10 | 14 |
| Copper | ppm | 1 | <1 | <1 | 2 |
| Lead | ppm | 0 | 0 | 0 | 0 |
| Tin | ppm | 0 | <1 | 0 | <1 |
| Aluminum | ppm | <1 | <1 | <1 | <1 |
| Chromium | ppm | 0 | 0 | 0 | <1 |
| Molybdenum | ppm | 0 | 0 | 0 | 0 |
| Nickel | ppm | 0 | <1 | 0 | <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | <1 | 0 | 0 | <1 |
| Manganese | ppm | 0 | 0 | 0 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|--------------|------|------|------|
| Calcium | ppm | 34 | 15 | 27 | 60 |
| Magnesium | ppm | 2 | <1 | 0 | <1 |
| Zinc | ppm | 47 | 21 | 24 | 41 |
| Phosphorus | ppm | 1040 | 1481 | 1802 | 2083 |
| Barium | ppm | <1 | 0 | 0 | 0 |
| Boron | ppm | 202 | 235 | 162 | 70 |

Diagnosis

Resample at the next service interval to monitor. 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: ALT940EDM
Unique No: 5646643
Signed: Wes Davis
Report Date: 28 Sep 2023



GRAPHS

