

LIEBHERR

CONSTRUCTION EQUIPMENT



[(336343)] LIEBHERR LH50M 124905-1216 - Diesel Engine

Sample No: LH0290547

Oil Type: PETRO CANADA SUPREME SYNTHETIC 0W40



CANFOR
101-161 E 4TH AVE
VANCOUVER, BC
CA V5T 3C1
Contact: Service Manager



Sample Information

| | | | | |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH0290547 | LH0224934 | LH0182503 | LH0182500 |
| Sample Date | 27 Jun 2024 | 30 Aug 2022 | 21 Jul 2021 | 29 Apr 2021 |
| Machine Hours | 22074 | 13313 | 0 | 4100 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Not Changd | N/A | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |



Oil Condition

| | | | | | |
|----------------|-----|------|------|------|------|
| Visc @ 100°C | cSt | 12.3 | 14.4 | 13.4 | 13.3 |
| Oxidation (PA) | % | 59 | 51 | 60 | 60 |

T:
F:



Contamination

| | | | | | |
|----------------|-----|------|------|------|------|
| Water | % | NEG | NEG | NEG | NEG |
| Soot % | % | 0 | 0 | 0 | 0 |
| Nitration (PA) | % | 58 | 47 | 66 | 64 |
| Sulfation (PA) | % | 47 | 47 | 48 | 50 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 7 | 7 | 11 | 12 |
| Sodium | ppm | 1 | 2 | 3 | 3 |
| Potassium | ppm | <1 | <1 | <1 | <1 |

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.



Wear Metals

| | | | | | |
|------------|-----|----|----|----|----|
| Iron | ppm | 3 | 10 | 3 | 3 |
| Copper | ppm | <1 | 0 | 17 | 49 |
| Lead | ppm | 0 | 0 | 2 | 2 |
| Tin | ppm | 0 | 0 | <1 | <1 |
| Aluminum | ppm | 1 | 2 | 2 | 2 |
| Chromium | ppm | 0 | <1 | 0 | 0 |
| Molybdenum | ppm | 56 | 3 | 1 | 1 |
| Nickel | ppm | 0 | <1 | 0 | <1 |
| Titanium | ppm | 0 | <1 | 0 | 0 |
| Silver | ppm | 0 | 0 | <1 | <1 |
| Manganese | ppm | 0 | <1 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



Additives

| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 1072 | 2127 | 2073 | 1977 |
| Magnesium | ppm | 925 | 29 | 34 | 33 |
| Zinc | ppm | 1163 | 1028 | 1085 | 1075 |
| Phosphorus | ppm | 961 | 950 | 929 | 852 |
| Barium | ppm | 0 | 0 | <1 | <1 |
| Boron | ppm | 2 | 6 | 1 | 1 |

Depot: CAN101VAN
Unique No: 5802927
Signed: Wes Davis
Report Date: 04 Jul 2024



Graphs

