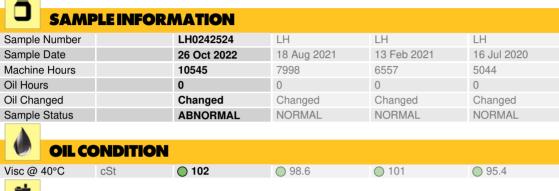
LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH60C 102201 - Swing Drive

Sample No: LH0242524

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



| CONTAMINATION | | | | | | | |
|---------------|-----|--------------|------|------|----------|--|--|
| Water | % | 0.185 | | | | | |
| Silicon | ppm | 4 | O 2 | O 2 | 2 | | |
| Sodium | ppm | 1 | O <1 | O <1 | O <1 | | |
| Potassium | ppm | () <1 | O <1 | O 0 | O <1 | | |
| | | | | | | | |

| WEAL | R METALS | | | | |
|------------|----------|-------------|-------|------------|-----------|
| PQ | | 0 0 | | | |
| Iron | ppm | 885 | O 177 | 168 | O 159 |
| Copper | ppm | 92 | O 72 | 55 | 47 |
| Lead | ppm | 3 | O 2 | O 2 | O 1 |
| Tin | ppm | 0 <1 | O 2 | 1 | 0 1 |
| Aluminum | ppm | O <1 | O 0 | O <1 | O 0 |
| Chromium | ppm | 8 | O 2 | O 2 | O 2 |
| Molybdenum | ppm | 0 <1 | O <1 | O <1 | O <1 |
| Nickel | ppm | 2 | O <1 | O <1 | O <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 6 | O 1 | O 1 | 0 1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |

| ADDITIVES | | | | | | | |
|------------|-----|-------------|-------|-------------|--------|--|--|
| Calcium | ppm | 11 | O 10 | 0 8 | O 7 | | |
| Magnesium | ppm | 2 | O 2 | O 2 | O 2 | | |
| Zinc | ppm | 16 | O 12 | O 11 | O 11 | | |
| Phosphorus | ppm | 1332 | 1289 | 1189 | O 1314 | | |
| Barium | ppm | 0 | O 0 | 0 | 0 | | |
| Boron | ppm | 200 | ○ 311 | 297 | ○ 314 | | |





BEN-MET STEEL & METAL INC. 415 ELIZABETH STREET GUELPH, ON CA N1E 2Y2 Contact: Andy Sakool asakool@benmetsteel.com T: (519)763-1209

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Diagnosis

The oil change at the time of sampling has been noted. 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 trace of moisture present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot:BENGUEUnique No:5476489Signed:Kevin MarsonReport Date:31 Oct 2022

CONSTRUCTION EQUIPMENT





GRAPHS

