CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 150728-1216 - Diesel Engine

PETRO CANADA DURON UHP E6 10W40

Sample No: LH0271874

Oil Type:

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Sample Information

| Sample Number | | LH0271874 | LH0271865 | LH0271862 | |
|----------------|----------|-------------|-------------|-------------|--|
| Sample Date | | 26 Apr 2024 | 09 Feb 2024 | 06 Nov 2023 | |
| Machine Hours | | 1514 | 1066 | 500 | |
| Oil Hours | | 0 | 0 | 0 | |
| Oil Changed | | Changed | Changed | Changed | |
| Sample Status | | NORMAL | NORMAL | MARGINAL | |
| | | | | | |
| Oil Co | ondition | | | | |
| Visc @ 100°C | cSt | 13.1 | 0 12.7 | ◯ 11.9 | |
| Oxidation (PA) | % | 69 | 81 | 194 | |

| Contamination | | | | | |
|----------------|-----|------|------|-------|--|
| Water | % | NEG | NEG | NEG | |
| Soot % | % | 0 | 0 | 0 | |
| Nitration (PA) | % | 65 | 73 | 96 | |
| Sulfation (PA) | % | 56 | 60 | 107 | |
| Glycol | % | NEG | 0.0 | NEG | |
| Fuel | % | <1.0 | <1.0 | 0 2.5 | |
| Silicon | ppm | 6 | 5 | 8 | |
| Sodium | ppm | 0 2 | 0 2 | 02 | |
| Potassium | ppm | 0 2 | 0 1 | 2 | |

Wear Metals

| | | 3 | | | |
|------------|-----|-------------|-------|------|--|
| Iron | ppm | 3 | 04 | 8 | |
| Copper | ppm | ○ 70 | 0 319 | 262 | |
| Lead | ppm | 0 2 | 08 | 8 | |
| Tin | ppm | 0 | ○ <1 | ◯ <1 | |
| Aluminum | ppm | ○ <1 | 0 2 | 3 | |
| Chromium | ppm | 0 | ○ <1 | ◯ <1 | |
| Molybdenum | ppm | 5 9 | 57 | 0 46 | |
| Nickel | ppm | 0 | ○ <1 | 0 | |
| Titanium | ppm | 0 | 0 | 0 | |
| Silver | ppm | 0 | 0 | ◯ <1 | |
| Manganese | ppm | ○ <1 | 0 | ◯ <1 | |
| Vanadium | ppm | 0 | 0 | 0 | |
| | | | | | |

| Additives | | | | | | |
|------------|-----|-------------|--------|--------|--|--|
| Calcium | ppm | 0 1054 | 0 1055 | 0 1296 | | |
| Magnesium | ppm | 978 | 948 | 915 | | |
| Zinc | ppm | 0 1189 | 0 1167 | 869 | | |
| Phosphorus | ppm | 991 | 976 | 740 | | |
| Barium | ppm | ○ <1 | 0 4 | 39 | | |
| Boron | ppm | 01 | 0 4 | 68 | | |



ABCNAN 5774601 Wes Davis 06 May 2024



ABC RECYCLING

750C JACKSON RD NANAIMO, BC CA V9X 1J2 Contact: Jordie Richmond jordie.richmond@abcrecycling.com T: (250)202-8235 F:

Diagnosis

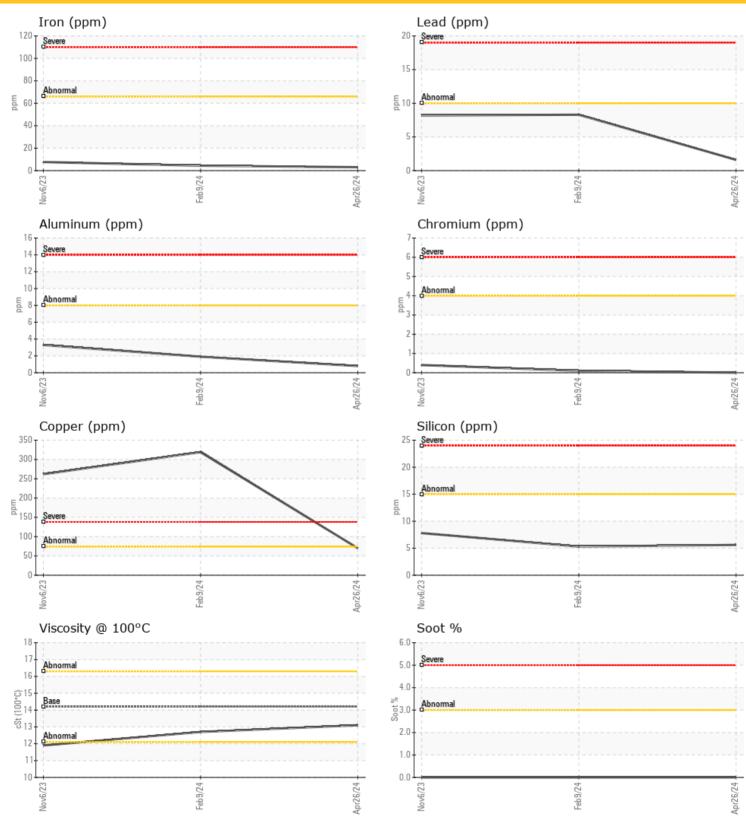
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.





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Graphs



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