# CONSTRUCTION EQUIPMENT

## - Diesel Engine

Sample No: LHMC165950

Oil Type: DIESEL ENGINE OIL SAE 5W40

### **Sample Information** LHMC165950 LH0268680 LH0267583 Sample Number LH0254620 Sample Date 11 Apr 2024 29 Jan 2024 28 Oct 2023 19 Jul 2023 Machine Hours 10104 9721 9344 8874 **Oil Hours** 0 1000 0 500 Oil Changed N/A Changed Changed Changed Sample Status NORMAL SEVERE NORMAL NORMAL **Oil Condition** Visc @ 100°C cSt 0 12.9 0 14.5 0 12.7 7.6 Base Number (BN) mg KOH/g 0 5.6 0 5.1 0 8.1 0 5.5 Oxidation (PA) 68 % 53 51 72 **Contamination** Water % NEG NEG NEG NEG % 0.1 0.1 0.1 Soot % 0.1 Nitration (PA) % 83 78 88 68 Sulfation (PA) % 59 52 50 60 % Glycol NEG NEG NEG NEG Fuel % 0 1.6 26.9 <1.0 <1.0 0 10 09 Silicon ppm 07 $\bigcirc 7$ Sodium $\bigcirc 4$ 02 ppm 04 $\bigcirc 1$ Potassium ppm 3 $\bigcirc 2$ 5 $\bigcirc 4$ 0 ear Metals Iron ppm 3 6 3 $\bigcirc 7$ Copper 01 ppm $\bigcirc 2$ $\bigcirc 2$ Lead ◯ <1 $\bigcirc$ <1 ppm > <1Tin ppm ○ <1</p> <1 Aluminum ppm ○ <1 ○ <1 2 3 Chromium 0 $\bigcirc$ $\bigcirc$ ppm Molybdenum 08 02 ppm 07 8 Nickel 0 $\bigcirc 0$ $\bigcirc 0$ ppm 0 <1 Titanium ○ <1 0 <1 <1 <1 ppm Silver $\bigcirc 0$ $\bigcirc 0$ 0 🔘 $\bigcirc 0$ ppm Manganese 0 <1 ○ <1 <1 ppm <1 Vanadium ppm 0 0 0 0 ٥ **Additives** Calcium 0 1237 885 0 1228 0 1314 ppm Magnesium 0 674 0 467 0 657 647 ppm Zinc 0 588 0800 0 804 ppm 0 799 Phosphorus 0722 0 466 710 676 ppm Barium 0 🔘 09 ppm ○ <1 0 0 Depot: Boron 0 60 28 ppm 0 100 29



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### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

 Depot:
 LEC0007

 Unique No:
 10983665

 Signed:
 Wes Davis

 Report Date:
 23 Apr 2024

Contact/Location: RAY SCHMIDT - LEC0007





Graphs

