

OIL ANALYSIS REPORT

NORMAL

Machine Id **146** Component **Rear Diesel Engine** Fluid **ESSO XD-3 EXTRA 15W40 (--- LTR)**

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

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SAMPLE INFORMATION method WC0888993 WC0889171 WC0866600 Sample Number **Client Info** 05 Apr 2024 06 Feb 2024 Sample Date Client Info 11 Dec 2023 0 0 Machine Age kms **Client Info** 1083240 Oil Age kms Client Info 9221 8868 9451 Oil Changed Client Info Changed Changed Changed NORMAL Sample Status NORMAL NORMAL CONTAMINATION Fuel >3.0 <1.0 <1.0 WC Method <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS 9 Iron >75 9 11 ppm ASTM D5185(m) Chromium ASTM D5185(m) >5 <1 <1 ppm <1 Nickel >4 <1 ppm ASTM D5185(m) <1 <1 Titanium ppm ASTM D5185(m) >2 0 0 0 Silver ASTM D5185(m) >2 0 <1 <1 ppm 2 Aluminum ASTM D5185(m) >15 1 2 ppm 0 Lead ASTM D5185(m) >25 1 1 ppm ASTM D5185(m) >100 Copper ppm <1 <1 1 0 Tin ppm ASTM D5185(m) >4 <1 <1 Antimony ppm ASTM D5185(m) 0 0 0 0 0 Vanadium ASTM D5185(m) 0 ppm 0 0 0 Bervllium ppm ASTM D5185(m) 0 0 0 Cadmium ASTM D5185(m) ppm 112 119 Boron ppm ASTM D5185(m) 120 0 Barium ASTM D5185(m) 0 ppm <1 Molybdenum ASTM D5185(m) 0 1 <1 ppm 0 0 0 Manganese ppm ASTM D5185(m) Magnesium ppm ASTM D5185(m) 14 20 13 Calcium 2224 2191 2214 ppm ASTM D5185(m) 3780 Phosphorus ASTM D5185(m) 1370 928 928 936 ppm 1153 Zinc ppm ASTM D5185(m) 1500 1131 1169 Sulfur ASTM D5185(m) 3800 2799 3005 2915 ppm Lithium ppm ASTM D5185(m) <1 <1 <1 CONTAMINANTS 2 2 ASTM D5185(m) 1 Silicon ppm >25 Sodium ppm ASTM D5185(m) >192 2 2 2 Potassium ASTM D5185(m) >20 5 6 5 ppm INFRA-RED Soot % % ASTM D7844* >6 0.1 0.1 0.1 Nitration Abs/cm 9.0 8.8 8.8 ASTM D7624* >20

Sulfation

ASTM D7415*

Abs/.1mm

>30

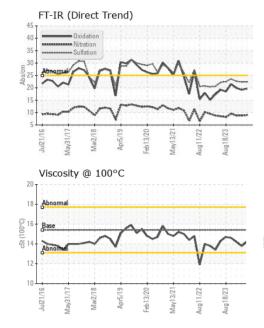
22.4

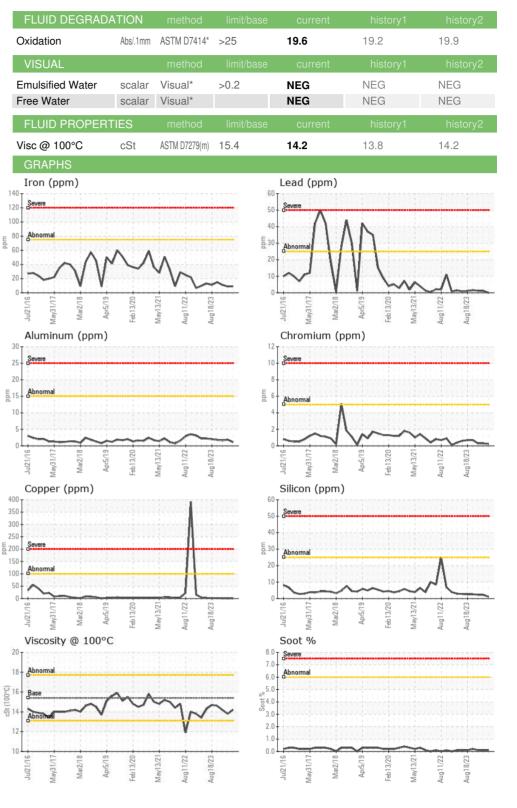
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Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CITY OF THUNDER BAY** CALA : WC0888993 AUTO MAINTENANCE STORES, 570 FORT WILLIAM ROAD Sample No. Received : 15 Apr 2024 Lab Number : 02628777 Tested : 16 Apr 2024 THUNDER BAY, ON ISO 17025:2017 Accredited Unique Number : 5761909 Diagnosed : 16 Apr 2024 - Wes Davis CA P7B 2Z8 Laboratory Test Package : MOB 1 Contact: Sean Malcolm To discuss this sample report, contact Customer Service at 1-800-268-2131. sean.malcolm@thunderbay.ca T: (807)684-2716 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied. F: (807)344-0237

Report Id: CITTHU [WCAMIS] 02628777 (Generated: 04/16/2024 10:39:18) Rev: 1

Contact/Location: Sean Malcolm - CITTHU Page 2 of 2