OIL ANALYSIS REPORT

ROBERT TUTLAND AJD/502764 CATERPILLAR CLX00559 - DIESEL ENGINE

Sample No: VPA060023

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

SAMPLE INFORMATION VPA060023 Sample Number 13 Feb 2024 Sample Date Machine Hours 1136 **Oil Hours** 0 Oil Changed Changed NORMAL Sample Status **OIL CONDITION** Visc @ 100°C cSt 13.3 Base Number (BN) mg KOH/g 8.2 Oxidation (PA) % 58 CONTAMINATION % NEG Water % Soot % 0.2 Nitration (PA) % 47 % Sulfation (PA) 58 Glycol % NEG Fuel % <1.0 Silicon 6 ppm Sodium 0 🔲 ppm Potassium 2 ppm WEAR METALS Iron 6 ppm 3 Copper ppm Lead ■ <1 ppm Tin ■ <1 ppm Aluminum ppm 2 Chromium ppm <1 Molybdenum 92 ppm Nickel ■ <1</p> ppm Titanium ppm **||** <1 Silver ppm ■ <1 Manganese <1 ppm Vanadium ppm <1 **ADDITIVES** Calcium 1410 ppm Magnesium 644 ppm Zinc ppm 807 Phosphorus ppm 731 Barium 0 ppm Boron ppm 321 Depot: Unique No: Signed:

Endor Marine LLC - Coastal Marine - 152124 4300 11th Ave. NW SEATTLE, WA US 98107 Contact: WILLOW YANARELLA service@coastalmarineengine.com T: (206)784-3703 F: (206)784-8823

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Contact/Location: WILLOW YANARELLA - VP794951

Report Date:

VP794951

10883715

Don Baldridge

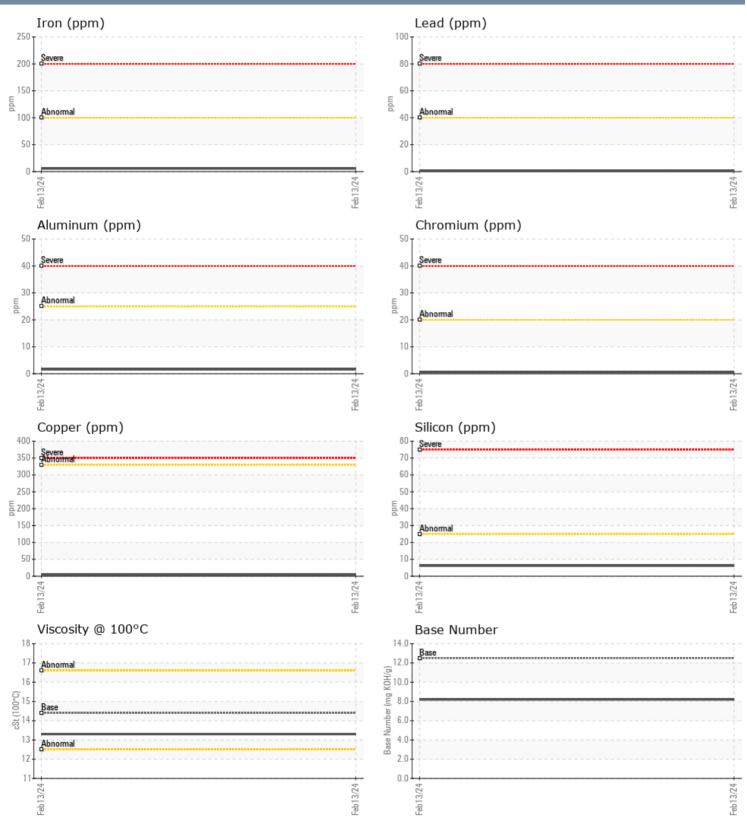
19 Feb 2024



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP794951 [WUSCAR] 06090862 (Generated: 02/19/2024 21:17:16) Rev: 1

Contact/Location: WILLOW YANARELLA - VP794951