OIL ANALYSIS REPORT

JOE GATTI ALAN VOLVO PENTA A 1106519 - STARBOARD DIESEL ENGINE

Sample No: VPA059424

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION VPA059424 VPA035093 Sample Number Sample Date 17 Nov 2023 09 Nov 2022 Machine Hours 143 143 **Oil Hours** 52 0 Oil Changed Changed Changed NORMAL Sample Status NORMAL **OIL CONDITION** F: Visc @ 100°C cSt 13.6 13.3 Base Number (BN) mg KOH/g 9.5 11.5 Oxidation (PA) % 66 60 CONTAMINATION Water % NEG NFG % Soot % 0.1 0.1 Nitration (PA) % 54 47 Sulfation (PA) % 55 56 Glycol % NEG NEG Fuel % <1.0 <1.0 Silicon 6 6 ppm Sodium 3 1 ppm Potassium **||** <1 2 ppm WEAR METALS Iron 7 11 ppm **4** 7 Copper ppm Lead 4 ppm 2 Tin | <1 ppm ■ <1 Aluminum 8 ppm 5 Chromium <1 < 1 ppm 45 Molybdenum 58 ppm Nickel 1 🔲 2 ppm Titanium ppm **||** <1 0 Silver 0 0 ppm Manganese < 1 **||** <1 ppm Vanadium 0 ppm <1 **ADDITIVES** 1079 Calcium 1129 ppm 835 883 Magnesium ppm Zinc ppm 961 1194 Phosphorus ppm 797 1008 Barium 0 0 ppm Boron ppm 42 **4**

VOLVO PENTA

Precision Marine Center Llc 290 Drake Ave NEW ROCHELLE, NY US 10805 Contact: Marc Castellano marc@precisionmarinecenter.com T:

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.

 Depot:
 VP850387

 Unique No:
 10752957

 Signed:
 Don Baldridge

 Report Date:
 23 Nov 2023

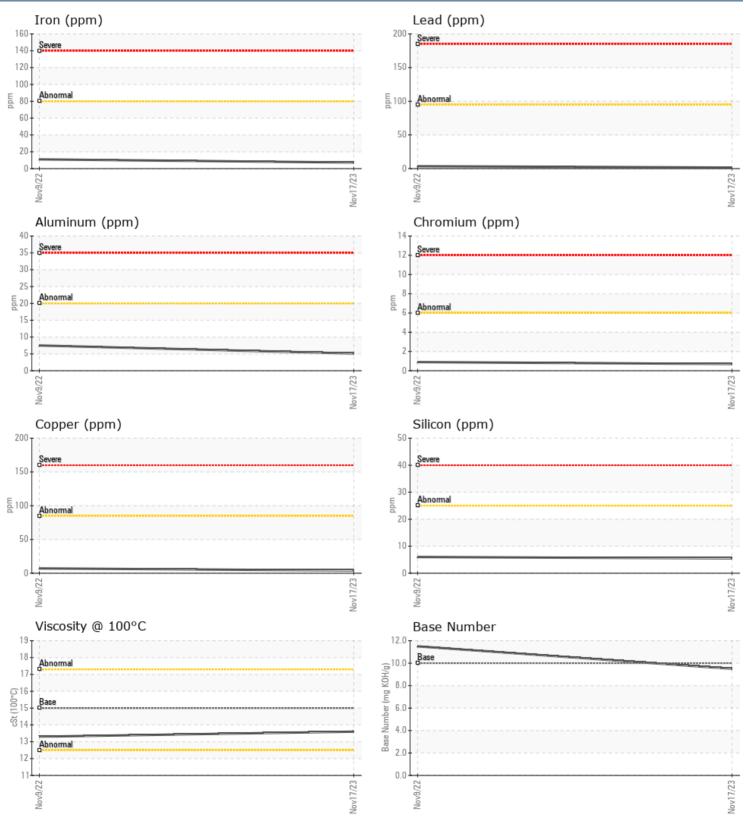
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Contact/Location: Marc Castellano - VP850387

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GRAPHS



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