OIL ANALYSIS REPORT

VOLVO PENTA 70112015691 - STARBOARD DIESEL ENGINE

Sample No: VPA058675

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION Sample Number VPA058675 Sample Date 06 Mar 2024 Machine Hours 215 0 **Oil Hours** Oil Changed N/A NORMAL Sample Status **OIL CONDITION** Visc @ 100°C cSt 13.5 Base Number (BN) mg KOH/g 8.8 Oxidation (PA) % 73 CONTAMINATION % Water NEG % Soot % 0.1 Nitration (PA) % 69 % Sulfation (PA) 54 Glycol % NEG Fuel % <1.0 Silicon 9 ppm Sodium 3 ppm Potassium 1 ppm WEAR METALS Iron 7 ppm 3 Copper ppm Lead 0 🔲 ppm Tin ■ <1 ppm Aluminum ppm 3 Chromium <1 ppm 53 Molybdenum ppm Nickel 0 🔲 ppm Titanium ppm **||** <1 Silver ppm 0 Manganese ppm **||** <1 Vanadium ppm 0 **ADDITIVES** Calcium 1261 ppm Magnesium **781** ppm Zinc ppm 894 Phosphorus ppm 770 Barium **<**1 ppm Boron ppm 49 Depot:

Unique No:10916077Signed:Don BaldridgeReport Date:11 Mar 2024

Contact/Location: NEIL JOHNSTON - VPJOHDEE

VPJOHDEE



JOHNSTONS MARINE SERVICES

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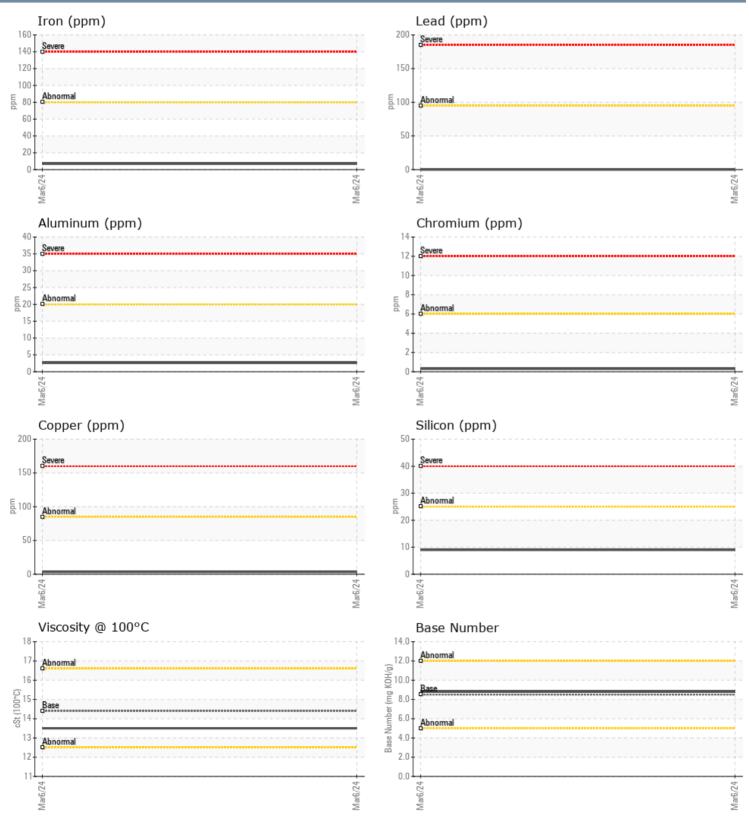
Diagnosis

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.

OIL ANALYSIS REPORT



GRAPHS



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