## **OIL ANALYSIS REPORT**

### RICHMOND/D-13 STRB 10132087419 - STARBOARD DIESEL ENGINE

Sample No: VPA036317

Oil Type: MOBIL DELVAC 1300 SUPER15W40

#### SAMPLE INFORMATION VPA036317 VPA046090 Sample Number Sample Date 12 Jan 2024 11 Aug 2023 Machine Hours 1261 193 193 **Oil Hours** 569 Oil Changed Changed Changed Sample Status NORMAL NORMAL **OIL CONDITION** Visc @ 100°C cSt 13.1 12.4 Base Number (BN) mg KOH/g 7.4 8.6 Oxidation (PA) % 104 63 CONTAMINATION Water % NEG NFG % Soot % 0.3 0.2 Nitration (PA) % 79 55 Sulfation (PA) % 73 57 Glycol % NEG NEG Fuel % <1.0 1.8 Silicon 7 29 ppm Sodium 2 0 ppm Potassium 0 26 ppm WEAR METALS 12 Iron 11 ppm 50 2 Copper ppm Lead ■ <1 0 ppm Tin 2 <1 ppm Aluminum 13 ppm 2 Chromium <1 < 1 ppm 41 Molybdenum 60 ppm Nickel 0 🔲 <1 ppm Titanium ppm 0 🔲 0 Silver 0 <1 ppm Manganese <1 < 1 ppm 0 Vanadium ppm 0 **ADDITIVES** 1374 Calcium 1662 ppm 536 941 Magnesium ppm Zinc ppm 938 1455 Phosphorus ppm 693 1150 Barium 0 0 ppm Boron ppm 39 10

VIRGINIA PILOT ASSOCIATION

3329 SHORE DR VIRGINIA BEACH, VA US 23451 Contact: RYAN BRYANT bryant\_j@vapilotassn.com T: (757)692-3439 F:

#### 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:
 VPVIRVIR

 Unique No:
 10843964

 Signed:
 Angela Borella

 Report Date:
 23 Jan 2024

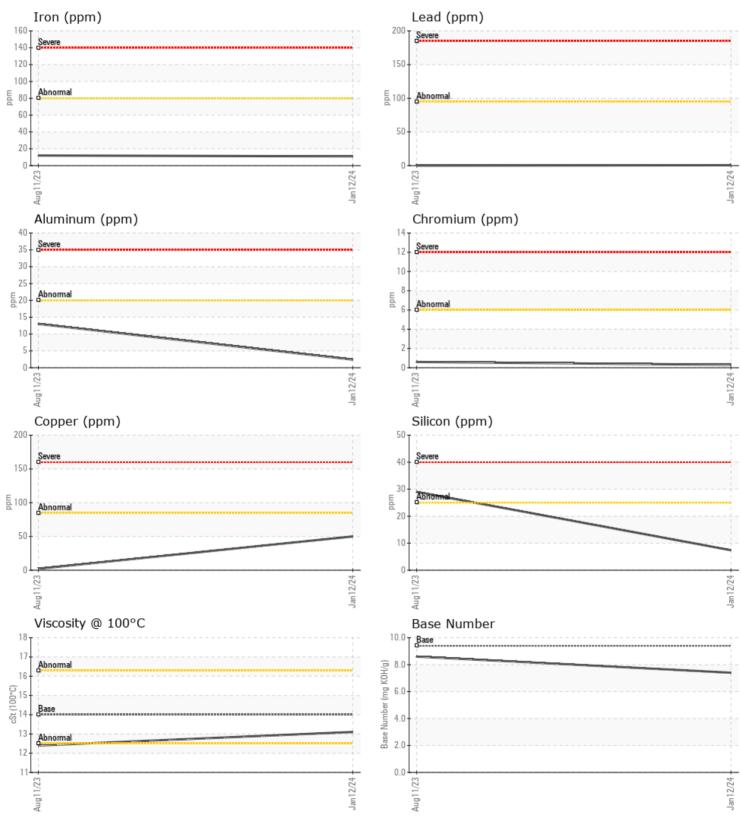
Contact/Location: RYAN BRYANT - VPVIRVIR



# **OIL ANALYSIS REPORT**



#### GRAPHS



Report Id: VPVIRVIR [WUSCAR] 06067287 (Generated: 01/23/2024 15:54:16) Rev: 1

Contact/Location: RYAN BRYANT - VPVIRVIR