OIL ANALYSIS REPORT

WINDSERVE ODYSSEY SCANIA 1161793 - STARBOARD DIESEL ENGINE

Sample No: VPA036197

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION VPA036197 Sample Number WINDSERVE MARINE Sample Date 18 Apr 2024 **10 MACNAUGHT ST** Machine Hours 3597 NORTH KINGSTOWN, RI **Oil Hours** 423 US 02852 Oil Changed Changed Contact: Ryan Linn NORMAL Sample Status RvanL@windservemarine.com T: **OIL CONDITION** F: 13.8 Visc @ 100°C cSt Base Number (BN) mg KOH/g 5.1 Diagnosis Oxidation (PA) % 73 CONTAMINATION % NEG Water % Soot % 0.6 Nitration (PA) % 71 % Sulfation (PA) 66 Glycol % NEG % Fuel <1.0 Silicon 5 ppm Sodium 8 🔲 ppm Potassium 8 🔲 ppm WEAR METALS 16 Iron ppm 8 Copper ppm Lead 1 ppm Tin ■ <1 ppm Aluminum 4 ppm Chromium ppm 2 Molybdenum 1 ppm Nickel ■ <1</p> ppm Titanium ppm <1 0 Silver ppm Manganese **||** <1 ppm Vanadium <1 ppm

ADDITIVES				
Calcium	ppm	2043	 	
Magnesium	ppm	14	 	
Zinc	ppm	1092	 	
Phosphorus	ppm	915	 	
Barium	ppm	1	 	
Boron	ppm	92	 	

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.

Report Id: VPSENNOR [WUSCAR] 06163782 (Generated: 05/03/2024 23:15:56) Rev: 1

Depot: VPSENNOR Unique No: 11004501 Signed: Don Baldridge Report Date: 01 May 2024

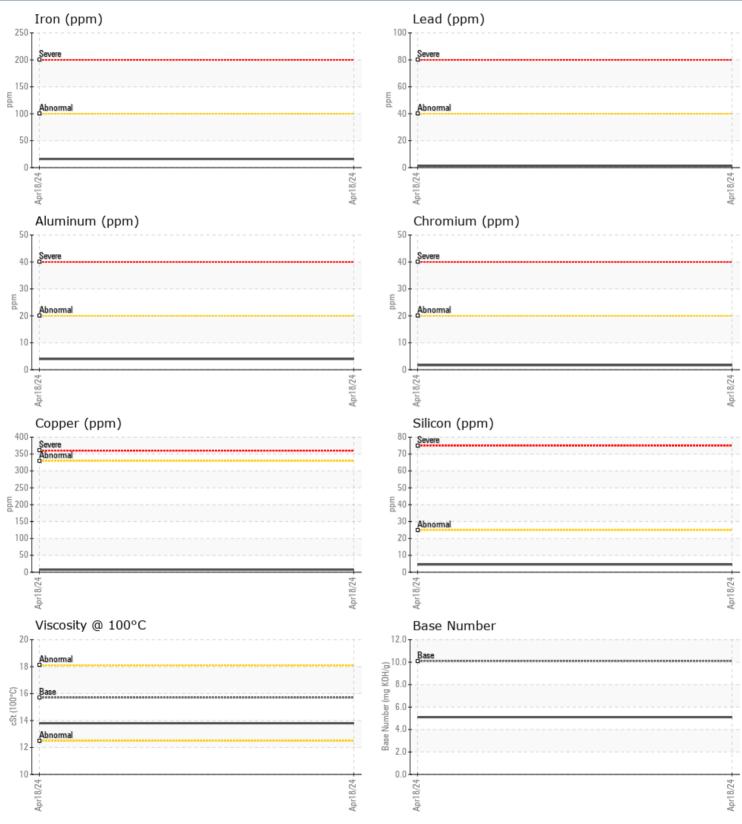
Contact/Location: Ryan Linn - VPSENNOR



OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: Ryan Linn - VPSENNOR