



LIOUID VOLVO PENTA 20132177219 - STARBOARD DIESEL ENGINE

Sample No: VPA053291

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

SAMPLE INFORMAT	TION			
Sample Number		VPA053291	 	
Sample Date		01 May 2024	 	
Machine Hours		138	 	
Oil Hours		138	 	
Oil Changed		Changed	 	
Sample Status		ATTENTION	 	
OIL CONDITION				
Visc @ 100°C	cSt	12.6	 	
Base Number (BN)	mg KOH/g	■ 9.1	 	
Oxidation (PA)	%	77	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	■ 0.4	 	
Nitration (PA)	%	58	 	
Sulfation (PA)	%	60	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	33	 	
Sodium	ppm	2	 	
Potassium	ppm	18	 	
WEAR METALS				
Iron	nnm	14	 	
Copper	ppm	6	 	
Lead	ppm	■<1	 	
Tin	ppm	3	 	
Aluminum	ppm	12	 	
Chromium	ppm	■ <1	 	
Molybdenum	ppm	■52	 	
Nickel	ppm	0	 	
Titanium	ppm	■0	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	nnm	1858	 	
Magnesium	ppm	446	 	
Zinc		■1138	 	
Phosphorus	ppm	■ 1138	 	
Barium	ppm	■ <1	 	
Boron	ppm	54	 	
DOTOIT	ppiii	J+	 	

FDDA TAMPA

TAMPA, FL US Contact: KYLE SUTLEY k.sutley@ssss.com T: (813)918-8518 F:

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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:VP208641Unique No:11019449Signed:Don BaldridgeReport Date:11 May 2024

Contact/Location: KYLE SUTLEY - VP208641

OIL ANALYSIS REPORT



