



NADINE URCIUOLI MARK NICOL VOLVO PENTA A682684 - CENTER DIESEL ENGINE

Sample No: VPA060173

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

SAMPLE INFORMAT	TION			
Sample Number		VPA060173	 	
Sample Date		12 Feb 2024	 	
Machine Hours		754	 	
Oil Hours		754	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	■12.8	 	
Base Number (BN)	mg KOH/g	■9.9	 	
Oxidation (PA)	%	56	 	
CONTAMINATION				
	0/	NEC		
Water Soot %	%	NEG ■ 0.2	 	
Nitration (PA)	%	47	 	
Sulfation (PA)	%	52	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	■ 5	 	
Sodium	ppm	<u> </u>	 	
Potassium	ppm	2	 	
WEAR METALS				
Iron	ppm	17	 	
Copper	ppm	6	 	
Lead	ppm	1	 	
Tin	ppm	_ ■ <1	 	
Aluminum	ppm	3	 	
Chromium	ppm	1	 	
Molybdenum	ppm	■80	 	
Nickel	ppm	4	 	
Titanium	ppm	■ <1	 	
Silver	ppm	0	 	
Manganese	ppm	■0	 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	1419	 	
Magnesium	ppm	1348	 	
Zinc	ppm	1744	 	
Phosphorus	ppm	1548	 	
Barium	ppm	10	 	
Boron	ppm	2	 	

Helmuts Marine Service

619 Canal Street
SAN RAFAEL, CA
US 94901-3545
Contact: NADINE URCIUOLI
SERVICE@HELMUTSMARINE.COM

T: x: F: x:

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 suitable for further service.

Depot:VP152741Unique No:10885573Signed:Don BaldridgeReport Date:20 Feb 2024

OIL ANALYSIS REPORT



