



WERRLEIR 23-2783 VOLVO PENTA 7011381382 - PORT DIESEL ENGINE

Sample No: VPA058542

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

SAMPLE INFORMAT	TION				
Sample Number		VPA058542	VPA031057		
Sample Date		06 Dec 2023	14 Dec 2022		
Machine Hours		973	867		
Oil Hours		130	830		
Oil Changed		Changed	N/A		
Sample Status		NORMAL	NORMAL		
		HORWAL	TVORTIVIAL	_	_
OIL CONDITION					
Visc @ 100°C	cSt	12.9	■13.3		
Base Number (BN)	mg KOH/g	■9.2	11.7		
Oxidation (PA)	%	61	84		
CONTAMINATION					
Water	%	NEG	NEG		
Soot %	%	■0.4	11		
Nitration (PA)	%	58	63		
Sulfation (PA)	%	55	68		
Glycol	%	NEG	NEG		
Fuel	%	<1.0	<1.0		
Silicon		■6	□5		
Sodium	ppm	■0	0		
Potassium	ppm ppm	■ 2	2		
	ррпп				
WEAR METALS					
Iron	ppm	■8	■ 3		
Copper	ppm	■33	7		
Lead	ppm		0		
Tin	ppm	1	- <1		
Aluminum	ppm	1	1		
Chromium	ppm	■<1	0		
Molybdenum	ppm	55	5 6		
Nickel	ppm	1	□0		
Titanium	ppm	- <1	<u> </u>		
Silver	ppm	■0	<u> </u>		
Manganese	ppm	■ <1			
Vanadium	ppm	0	0		
ADDITIVES					
Calcium	ppm	1141	□ 1233		
Magnesium	ppm	852	827		
Zinc	ppm	1199	□ 1226		
Phosphorus	ppm	990	1061		
Barium	ppm	11	□ 0		
Boron		1 10	17		
DOTOTI	ppm	10	17		

Outstanding Marine

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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.

Depot:VP153685Unique No:10782818Signed:Don BaldridgeReport Date:15 Dec 2023

OIL ANALYSIS REPORT



