



GREENBERG 500-87 VOLVO PENTA A225627 - PORT DIESEL ENGINE

Sample No: VPA021799

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

SAMPLE INFORMAT	TION			
Sample Number		VPA021799	VPA026758	
Sample Date		21 Nov 2023	18 Nov 2020	
Machine Hours		1129	808	
Oil Hours		0	0	
Oil Changed		N/A	N/A	
Sample Status		NORMAL	ABNORMAL	
		110111111111	7 IDI VOTAVIA LE	
OIL CONDITION				
Visc @ 100°C	cSt	14.0	14.0	
Base Number (BN)	mg KOH/g	■8.5		
Oxidation (PA)	%	63	26	
CONTAMINATION				
Water	%	NEG	NEG	
Soot %	%	™ 0.3	MEG ■0	
Nitration (PA)	%	53	32	
Sulfation (PA)	%	55	66	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<1.0	
Silicon	ppm	■4	□37	
Sodium	ppm	1	7	
Potassium	ppm	4	8	
WEAD METALS		_		
WEAR METALS				
Iron	ppm	■8	<u>^</u> 299	
Copper	ppm	■ 4	■28	
Lead	ppm	■<1	□0	
Tin	ppm	■<1	0	
Aluminum	ppm	1	■3	
Chromium	ppm	■<1	2	
Molybdenum	ppm	12	< 1	
Nickel	ppm	■<1	4	
Titanium	ppm	■<1	0	
Silver	ppm	■ 0	- <1	
Manganese	ppm	■<1	4	
Vanadium	ppm	<1	0	
ADDITIVES				
Calcium	ppm	1864	6	
Magnesium	ppm	177	1 7	
Zinc	ppm	1143	2 8	
Phosphorus	ppm	■952	1267	
Barium	ppm	■ 0	0	
Boron	ppm	132	207	

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 suitable for further service.

Depot:VP153685Unique No:10816332Signed:Don BaldridgeReport Date:04 Jan 2024

OIL ANALYSIS REPORT



