



BILL SHIELDS SAM VOLVO PENTA A 1 1 1 1 4 09 - PORT DIESEL ENGINE

Sample No: VPA053216

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMA	TION			
Sample Number		VPA053216	VPA035126	
Sample Date		02 Apr 2024	04 Oct 2021	
Machine Hours		345	239	
Oil Hours		106	0	
Oil Changed		Not Changd	Not Changd	
Sample Status		NORMAL	NORMAL	
OIL CONDITION				
Visc @ 100°C	cSt	13.7	■ 13.52	
Base Number (BN)	mg KOH/g	10.4		
Oxidation (PA)	%	55	65	
CONTAMINATION				
Water	%	NEG	□0.102	
Soot %	%	■ 0.1	0.102	
Nitration (PA)	%	39	48	
Sulfation (PA)	%	51	64	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<1.0	
Silicon	ppm	■ 4	■8	
Sodium	ppm	 <1	2	
Potassium	ppm	0	- <1	
WEAR METALS				
		=3	— 12	
Iron	ppm	3	12	
Copper	ppm	2	7	
Lead	ppm	0	4	
Tin Aluminum	ppm	0	□ 1 □ 4	
Chromium	ppm	□ <1 □ 0	4 <1	
Molybdenum	ppm	■64	■ 123	
Nickel	ppm	■ 64 ■ <1	2	
Titanium	ppm	0	<u> </u>	
Silver	ppm	0	<1	
Manganese	ppm	0	□<1	
Vanadium	ppm	<1	<1	
	ppiii			
ADDITIVES				
Calcium	ppm	1160	□1539	
Magnesium	ppm	1042	636	
Zinc	ppm	1375	■846	
Phosphorus	ppm	1131	630	
Barium	ppm	■0	0	
Boron	ppm	■ 4	■387	

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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:VP794951Unique No:10956668Signed:Don BaldridgeReport Date:05 Apr 2024

OIL ANALYSIS REPORT



