



VOLVO PENTA 2006038571 - STARBOARD DIESEL ENGINE

Sample No: VPA056864

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMAT	TION			
Sample Number		VPA056864	VPA047298	
Sample Date		29 Aug 2023	02 May 2022	
Machine Hours		2099	2053	
Oil Hours		0	0	
Oil Changed		N/A	N/A	
Sample Status		NORMAL	NORMAL	
OIL CONDITION				
Visc @ 100°C	cSt	14.8	□13.9	
Base Number (BN)	mg KOH/g	■8.3	■10.2	
Oxidation (PA)	%	58	60	
CONTAMINATION				
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Soot %	%	■ 0.1	■ 0.1	
Nitration (PA)	%	49	46	
Sulfation (PA)	%	50	57	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	< 1.0	
Silicon	ppm	12	5	
Sodium	ppm	4	<1	
Potassium	ppm	_ 2	0	
	Plann			
WEAR METALS				
Iron	ppm	13	4	
Copper	ppm	■<1	3	
Lead	ppm	■ 0	4	
Tin	ppm			
Aluminum	ppm	4	1	
Chromium	ppm	<1	<1	
Molybdenum	ppm	45	5 7	
Nickel	ppm	■ 0	0	
Titanium	ppm	0	0	
Silver	ppm	0	<1	
Manganese		■ <1	□ < 1	
Vanadium	ppm	0	0	
vanaulum	ppm	0	U	
ADDITIVES				
Calcium	ppm	1330	■1073	
Magnesium	ppm	■778	□1005	
Zinc	ppm	■ 1304	1243	
Phosphorus	ppm	■ 1042	1082	
Barium	ppm	■ 0	□ 0	
Boron		■33	4	
DOIOII	ppm		<u></u> 4	

JOHNSTONS MARINE SERVICES

1850 NW 15th AVENUE, SUITE 205 POMPANO BEACH, FL US 33069 Contact: NEIL JOHNSTON neil@1jms.com T: (984)448-0813 F:

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:VPJOHDEEUnique No:10629124Signed:Sean FeltonReport Date:31 Aug 2023

OIL ANALYSIS REPORT



