



## JIM ROEHRIG VOLVO PENTA 7008445990 - STARBOARD DIESEL ENGINE

Sample No: VPA049559

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMAT	TION			
		\(\text{DA 0.40550}\)		
Sample Number		VPA049559	 	
Sample Date		17 Aug 2023	 	
Machine Hours		0	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	<b>13.6</b>	 	
Base Number (BN)	mg KOH/g	■9.9	 	
Oxidation (PA)	%	53	 	
Chidation (171)	70			
CONTAMINATION				
Soot %	%	<b>■</b> 0.1	 	
Nitration (PA)	%	39	 	
Sulfation (PA)	%	50	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	<b>8</b>	 	
Sodium	ppm	<b>2</b>	 	
Potassium	ppm	<b>■</b> <1	 	
WEAR METALS				
Iron	ppm	<b>■</b> 3	 	
Copper	ppm	8	 	
Lead	ppm	■0	 	
Tin	ppm	■0	 	
Aluminum	ppm	■0	 	
Chromium	ppm	<b>■</b> <1	 	
Molybdenum		<b>60</b>	 	
	ppm	_		
Nickel	ppm	<b>0</b>	 	
Titanium	ppm	<b>□</b> <1	 	
Silver	ppm	<b>-</b> <1	 	
Manganese	ppm	<b>□</b> <1	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	<b>1139</b>	 	
Magnesium	ppm	<b>1035</b>	 	
Zinc	ppm	<b>1297</b>	 	
Phosphorus	ppm	<b>1051</b>	 	
Barium	ppm	■0	 	
Boron	ppm	■0	 	
20.011	77111			

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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. Confirm oil type. The condition of the oil is acceptable for the time in service.

Depot:VP794951Unique No:10609092Signed:Sean FeltonReport Date:22 Aug 2023

## **OIL ANALYSIS REPORT**



