



WARREN LUETH 1172 VOLVO PENTA 7008533077 - STARBOARD DIESEL ENGINE

Sample No: VPA055234

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

SAMPLE INFORMAT	TION			
Sample Number		VPA055234	 	
Sample Date		28 Nov 2023	 	
Machine Hours		161	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	■13.4	 	
Base Number (BN)	mg KOH/g	■8.8	 	
Oxidation (PA)	%	51	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	■0.2	 	
Nitration (PA)	%	59	 	
Sulfation (PA)	%	50	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	■14	 	
Sodium	ppm	<u> </u>	 	
Potassium	ppm	4	 	
WEAR METALS				
MTVII IIIT I VITZ				
Iron	ppm	10	 	
Copper	ppm	41	 	
Lead	ppm	■ <1	 	
Tin	ppm	■ <1	 	
Aluminum	ppm	2	 	
Chromium	ppm	■ <1	 	
Molybdenum	ppm	11	 	
Nickel	ppm	4	 	
Titanium	ppm	■ <1	 	
Silver	ppm	■0	 	
Manganese	ppm	■ <1	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	1422	 	
Magnesium	ppm		 	
Zinc	ppm	921	 	
Phosphorus	ppm	■807	 	
Barium	ppm	11	 	
Boron	ppm	105	 	

BELLINGHAM YACHT SALES (OUILEETE BROS)

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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:
 VP255663

 Unique No:
 10782810

 Signed:
 Sean Felton

 Report Date:
 15 Dec 2023





