



MCCRARY VOLVO PENTA A 1156457 - STARBOARD DIESEL ENGINE

Sample No: VPA060274

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

SAMPLE INFORMAT	LIUN			
24MLTT IM OUMY	HUN			
Sample Number		VPA060274	 	
Sample Date		18 Oct 2023	 	
Machine Hours		345	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.9	 	
Base Number (BN)	mg KOH/g	■ 9.5	 	
Oxidation (PA)	%	68	 	
CONTAMINATION				
Soot %	%	■0.4	 	
Nitration (PA)	%	64	 	
Sulfation (PA)	%	57	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	■8	 	
Sodium	ppm	4	 	
Potassium	ppm	■ 0	 	
WEAD METALS				
WEAR METALS				
Iron	ppm	21	 	
Copper	ppm	11	 	
Lead	ppm		 	
Tin	ppm	1	 	
Aluminum	ppm	■ 3	 	
Chromium	ppm	2	 	
Molybdenum	ppm	48	 	
Nickel	ppm	2	 	
Titanium	ppm	■ 0	 	
Silver	ppm	■ 0	 	
Manganese	ppm		 	
Vanadium	ppm	0	 	
ADDITIVES				
ADDITIDES				
Calcium	ppm	1174	 	
Magnesium	ppm	■879	 	
Zinc	ppm	■966	 	
Phosphorus	ppm	650	 	
Barium	ppm	0	 	
Boron	ppm	■ 29	 	

FULL KEEL MARINE SERVICES

ANNAPOLIS, MD US 21401 Contact: Service Manager FULLKEELMARINESERIVES@GMAIL.COM T: (410)507-3542 F:

Diagnosis

314 LEGION AVE

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:
 VP1298996

 Unique No:
 10711552

 Signed:
 Sean Felton

 Report Date:
 27 Oct 2023

OIL ANALYSIS REPORT



