



VOLVO PENTA A 1 1 6 0 5 7 6 - STARBOARD DIESEL ENGINE

Sample No: VPA056274

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

SAMPLE INFORMA	ATION			
Sample Number		VPA056274	 	
Sample Date		13 Nov 2023	 	
Machine Hours		68	 	
Oil Hours		15	 	
Oil Changed		Not Changd	 	
Sample Status		NORMAL	 	
OIL CONDITION				
	-C+	=12.00		
Visc @ 100°C	cSt %	■ 13.08 58	 	
Oxidation (PA)	%	58	 	
CONTAMINATION				
Soot %	%	■0.2	 	
Nitration (PA)	%	44	 	
Sulfation (PA)	%	53	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	23	 	
Sodium	ppm	5	 	
Potassium	ppm	■1	 	
WEAR METALS				
Iron	ppm	12	 	
Copper	ppm	18	 	
Lead	ppm	6	 	
Tin	ppm	2	 	
Aluminum	ppm	■ 3	 	
Chromium	ppm	■<1	 	
Molybdenum	ppm	61	 	
Nickel	ppm	■<1	 	
Titanium	ppm	■ <1	 	
Silver	ppm	■0	 	
Manganese	ppm	1	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	1247	 	
Magnesium	ppm	950	 	
Zinc	ppm	1309	 	
Phosphorus	ppm	1112	 	
Barium	ppm	-<1	 	
Boron	ppm	11	 	

FDDA FT PIERCE - POWER CENTER

FORT PIERCE, FL US Contact: KYLE GRASER k.graser@kirbycorp.com T: F:

Diagnosis

No corrective action is recommended at this time. 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 condition of the oil is acceptable for the time in service.

Depot:VP208659Unique No:10749115Signed:Doug BogartReport Date:16 Nov 2023

OIL ANALYSIS REPORT



