



RICHARD CANNY VOLVO PENTA A 186556 - STARBOARD DIESEL ENGINE

Sample No: VPA042456

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

SAMPLE INFORMAT	TION			
Sample Number		VPA042456	VPA028521	
Sample Date		15 Feb 2023	24 Feb 2022	
Machine Hours		372	307	
Oil Hours		0	0	
Oil Changed		Changed	Changed	
Sample Status		ABNORMAL	NORMAL	
Sample Status		ADNORIVIAL	NORWAL	
OIL CONDITION				
Visc @ 100°C	cSt	14.5	□13.4	
Base Number (BN)	mg KOH/g	■9.9	8.9	
Oxidation (PA)	%	57	51	
CONTAMINATION				
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Water	%	NEG	NEG	
Soot %	%	1.7	0.5	
Nitration (PA)	%	70	48	
Sulfation (PA)	%	63	48	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<1.0	
Silicon	ppm	16	■8	
Sodium	ppm	5	3	
Potassium	ppm	6	< 1	
WEAR METALS				
Iron	ppm	▲ 307	□ 65	
Copper	ppm	■ 36	1 1	
Lead	ppm	■ 3	2	
Tin	ppm	■ 3	2	
Aluminum	ppm	45	1 5	
Chromium	ppm	<u>^</u> 22	5	
Molybdenum	ppm	■ 59	5 7	
Nickel	ppm	6	1	
Titanium	ppm	- <1	<u> </u>	
Silver	ppm	<1	<u> </u>	
Manganese	ppm	3	<u> </u>	
Vanadium	ppm	0	<1	
ADDITIVES				
Calcium	ppm	1063	□ 1033	
Magnesium	ppm	949	939	
Zinc	ppm	1226	□1113	
Phosphorus	ppm	1087	997	
Barium	ppm	■0	0	
Boron	ppm	■34	1 2	
DOTOTT	ppiii	J -	12	

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Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Chromium and iron ppm levels are abnormal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot:VP297371Unique No:10351213Signed:Angela BorellaReport Date:27 Feb 2023

OIL ANALYSIS REPORT



