



MCNEIL VOLVO PENTA 7011440511 - PORT DIESEL ENGINE

Sample No: VPA036759

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

SAMPLE INFORMAT	TION			
Sample Number		VPA036759	VPA033450	
Sample Date		08 Sep 2023	28 Mar 2022	
Machine Hours		276	677	
Oil Hours		0	0	
Oil Changed		Changed	Not Changd	
Sample Status		ABNORMAL	ABNORMAL	
OIL CONDITION				
Visc @ 100°C	cSt	<u> </u>	<u> </u>	
Base Number (BN)	mg KOH/g	■6.9	10.5	
Oxidation (PA)	%	64	65	
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CONTAMINATION				
Soot %	%	0.5	■0.5	
Nitration (PA)	%	65	64	
Sulfation (PA)	%	56	61	
Glycol	%	NEG	NEG	
Fuel	%	<u>▲</u> 5.4	▲ 4.0	
Silicon	ppm	5 5	5	
Sodium	ppm	2	1 0	
Potassium		7	2	
FOLASSIUIII	ppm	/	<u> </u>	
WEAR METALS				
Iron	ppm	12	□10	
Copper	ppm	■ 37	■38	
Lead	ppm	1	<1	
Tin	ppm	1	<1	
Aluminum	ppm	■0	1 <1	
Chromium	ppm	1 <1	<1	
Molybdenum		6	6 1	
Nickel	ppm	1	0	
Titanium	ppm	0	0	
	ppm			
Silver	ppm	0	- <1	
Manganese	ppm		<1	
Vanadium	ppm	0	0	
ADDITIDDA				
Calcium	ppm	2050	1131	
Magnesium	ppm	125	939	
Zinc	ppm	1209	1284	
Phosphorus	ppm	1011	1101	
Barium	ppm	■ 0	0	
Boron	ppm	95	6	
201011	77111	55		

FULL KEEL MARINE SERVICES

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

Diagnosis

314 LEGION AVE

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot:VP1298996Unique No:10646591Signed:Jonathan HesterReport Date:18 Sep 2023

OIL ANALYSIS REPORT



