



BILL MORENO - GALEON VOLVO PENTA VP3 1823 1 - PORT DIESEL ENGINE

Sample No: VPA036455

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMAT	TION			
Sample Number		VPA036455	VPA043530	
Sample Date		19 Dec 2023	10 Dec 2022	
Machine Hours		566	513	
Oil Hours		566	513	
Oil Changed		Changed	Changed	
Sample Status		NORMAL	ATTENTION	
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OIL CONDITION				
Visc @ 100°C	cSt	13.2	12.3	
Base Number (BN)	mg KOH/g	■8.4	9.9	
Oxidation (PA)	%	66	90	
CONTAMINATION				
Water	%	NEG	NEG	
Soot %	%	■0.2	0.1	
Nitration (PA)	%	53	73	
Sulfation (PA)	%	57	68	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	1.3	
Silicon	ppm	■ 5	■8	
Sodium	ppm	1	0	
Potassium	ppm	7	2	
WEAR METALS				
Iron	ppm	4	1 0	
Copper	ppm	18	□ 65	
Lead	ppm	1	1	
Tin	ppm	 <1	<1	
Aluminum	ppm	1	1	
Chromium	ppm	 <1	<1	
Molybdenum	ppm	9	□ 59	
Nickel	ppm	■ <1	0	
Titanium	ppm	■0	0	
Silver	ppm	0	1	
Manganese	ppm	■0	<1 < 1	
Vanadium	ppm	<1	<1	
ADDITIVES				
Calcium	ppm	1917	□ 1107	
Magnesium	ppm	161	871	
Zinc	ppm	1232	■1193	
Phosphorus	ppm	1046	1011	
Barium	ppm	■0	0	
Boron	ppm	146	6	
DOTOTI	Phili			

Larry`s Lighthouse Marina

1250

AQUEBOGUE, NY US 11931

Contact: MAX FUHLBRUGGE info@lighthousemarina.com

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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:VP610438Unique No:10843051Signed:Angela BorellaReport Date:23 Jan 2024

OIL ANALYSIS REPORT



