



FOX ELDON MITCH VOLVO PENTA 1013799710 - PORT DIESEL ENGINE

Sample No: VPA034044

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMAT	FION			
Sample Number		VPA034044	VPA038794	
Sample Date		12 Dec 2022	21 Apr 2022	
Machine Hours		2263	1667	
Oil Hours		524	667	
Oil Changed		Not Changd ABNORMAL	Not Changd SEVERE	
Sample Status		ABNORWAL	SEVERE	
OIL CONDITION				
Visc @ 100°C	cSt	12.1	▲ 11.8	
Base Number (BN)	mg KOH/g	10.1	■9.8	
Oxidation (PA)	%	62	70	
CONTAMINATION				
Water	%	NEG	NEG	
Soot %	%	■0.1	0.2	
Nitration (PA)	%	58	68	
Sulfation (PA)	%	58	62	
Glycol	%	NEG	NEG	
Fuel	%	▲ 4.1	▲ 5.6	
Silicon		4. 1	▲ 177	
Sodium	ppm	13	<1	
Potassium	ppm	4 6	6	
	ppm			
WEAR METALS				
Iron	ppm	6	1 1	
Copper	ppm	2	3	
Lead	ppm	■ <1	1	
Tin	ppm	■<1	1	
Aluminum	ppm	1	3	
Chromium	ppm	■ 0	- <1	
Molybdenum	ppm	60	5 9	
Nickel	ppm	■ 0	0	
Titanium	ppm	■0	0	
Silver	ppm	■ <1	0	
Manganese	ppm	■<1	<1	
Vanadium	ppm	0	0	
ADDITIVES				
Calcium	nnm	1051	1068	
Magnesium — — — — — — — — — — — — — — — — — — —	ppm	900	884	
	ppm			
Zinc	ppm	1201	1205	
Phosphorus	ppm	■ 1010	1018	
Barium	ppm	0	0	
Boron	ppm	2	<1	

NEWT MARINE

5 JONES ST DUBUQUE, IA US 52001 Contact: DON LEIK service@newtmarine.com T: F:

Diagnosis

We advise that you check the fuel injection system. We recommend an early resample to monitor this condition. 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:VP99298099Unique No:10259267Signed:Don BaldridgeReport Date:19 Dec 2022

Contact/Location: DON LEIK - VP99298099

OIL ANALYSIS REPORT



