

OIL ANALYSIS REPORT

VOLVO PENTA

CHARLES SOUTHALL 6828 VOLVO PENTA A 1077300 - STARBOARD DIESEL ENGINE

Sample No: VPA051852

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

SAMPLE INFORMATION

Sample Number	VPA051852	---	---	---
Sample Date	16 Feb 2024	---	---	---
Machine Hours	998	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

Western Branch Diesel, Inc. - VP527273

3504 SHIPWRIGHT ST
PORTSMOUTH, VA
US 23703

Contact: David Shook
dshook@wbdiesel.com

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OIL CONDITION

Visc @ 100°C	cSt	█ 14.5	---	---	---
Base Number (BN)	mg KOH/g	█ 9.6	---	---	---
Oxidation (PA)	%	59	---	---	---

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 suitable for further service.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0	---	---	---
Nitration (PA)	%	45	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 1	---	---	---
Copper	ppm	█ < 1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 42	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1256	---	---	---
Magnesium	ppm	475	---	---	---
Zinc	ppm	█ 1060	---	---	---
Phosphorus	ppm	█ 936	---	---	---
Barium	ppm	█ 10	---	---	---
Boron	ppm	█ 42	---	---	---

Depot: VP155396

Unique No: 10885583

Signed: Don Baldrige

Report Date: 20 Feb 2024

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GRAPHS

