

OIL ANALYSIS REPORT



MD PILOTS 6535 VOLVO PENTA 1016132824 - STARBOARD DIESEL ENGINE

Sample No: VPA051841

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

SAMPLE INFORMATION

Sample Number	VPA051841	---	---	---
Sample Date	13 Feb 2024	---	---	---
Machine Hours	4117	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
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	█ 13.0	---	---	---
Base Number (BN)	mg KOH/g	█ 8.6	---	---	---
Oxidation (PA)	%	91	---	---	---

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 %	%	█ 0.5	---	---	---
Nitration (PA)	%	73	---	---	---
Sulfation (PA)	%	69	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 1	---	---	---

WEAR METALS

Iron	ppm	█ 10	---	---	---
Copper	ppm	█ 1	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 39	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1588	---	---	---
Magnesium	ppm	█ 459	---	---	---
Zinc	ppm	█ 834	---	---	---
Phosphorus	ppm	█ 787	---	---	---
Barium	ppm	█ 12	---	---	---
Boron	ppm	█ 34	---	---	---

Depot: VP155396

Unique No: 10876028

Signed: Jonathan Hester

Report Date: 15 Feb 2024

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VOLVO PENTA

GRAPHS

