

OIL ANALYSIS REPORT

**VOLVO
PENTA**

JOHN COLEMAN ALAN VOLVO PENTA 2013979520 - STARBOARD DIESEL ENGINE

Sample No: VPA050780

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

SAMPLE INFORMATION

Sample Number	VPA050780	---	---	---
Sample Date	11 Oct 2023	---	---	---
Machine Hours	496	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 10.5	---	---	---
Oxidation (PA)	%	80	---	---	---

CONTAMINATION

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	55	---	---	---
Sulfation (PA)	%	62	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 1	---	---	---

WEAR METALS

Iron	ppm	█ 4	---	---	---
Copper	ppm	█ 14	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 43	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1592	---	---	---
Magnesium	ppm	█ 553	---	---	---
Zinc	ppm	█ 1117	---	---	---
Phosphorus	ppm	█ 825	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 41	---	---	---

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T:
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Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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: VP850387
Unique No: 10696631
Signed: Sean Felton
Report Date: 17 Oct 2023

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GRAPHS

