

OIL ANALYSIS REPORT

**VOLVO
PENTA**

NOT GIVEN VPA036633 - STARBOARD DIESEL ENGINE

Sample No: VPA036633

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA036633	---	---	---
Sample Date	19 Oct 2023	---	---	---
Machine Hours	3400	---	---	---
Oil Hours	100	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	---	---	---
Base Number (BN)	mg KOH/g	█ 7.2	---	---	---
Oxidation (PA)	%	55	---	---	---

CONTAMINATION

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	69	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 1	---	---	---

WEAR METALS

Iron	ppm	█ 8	---	---	---
Copper	ppm	█ 41	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 84	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1986	---	---	---
Magnesium	ppm	166	---	---	---
Zinc	ppm	█ 1332	---	---	---
Phosphorus	ppm	█ 1111	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 164	---	---	---

ADVANCED DIESEL

1029 INDUSTRIAL BLVD, UNIT 2

NAPLES, FL

US 34104

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F:

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.

Depot: VPADVNP

Unique No: 10708773

Signed: Don Baldrige

Report Date: 25 Oct 2023

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GRAPHS

