

OIL ANALYSIS REPORT

VOLVO PENTA

STEPHAN WOLFF TAP510497 VOLVO PENTA 20132170055 - STARBOARD DIESEL ENGINE

Sample No: VPA056790

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

SAMPLE INFORMATION

Sample Number	VPA056790	---	---	---
Sample Date	28 Sep 2023	---	---	---
Machine Hours	296	---	---	---
Oil Hours	296	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

FDDA TAMPA

TAMPA, FL

US

Contact: KYLE SUTLEY

k.sutley@ssss.com

T: (813)918-8518

F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.0	---	---	---
Base Number (BN)	mg KOH/g	█ 9.1	---	---	---
Oxidation (PA)	%	55	---	---	---

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 %	%	█ 0.4	---	---	---
Nitration (PA)	%	54	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 13	---	---	---
Sodium	ppm	█ < 1	---	---	---
Potassium	ppm	█ 7	---	---	---

WEAR METALS

Iron	ppm	█ 17	---	---	---
Copper	ppm	█ 9	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 56	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 1102	---	---	---
Magnesium	ppm	█ 1027	---	---	---
Zinc	ppm	█ 1303	---	---	---
Phosphorus	ppm	█ 1055	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

Depot: VP208641

Unique No: 10674104

Signed: Don Baldrige

Report Date: 05 Oct 2023

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GRAPHS

