

OIL ANALYSIS REPORT

VOLVO PENTA

MARK LAMBERT GARRETT 17499 VOLVO PENTA 20132234324 - STARBOARD DIESEL ENGINE

Sample No: VPA055755

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

SAMPLE INFORMATION

Sample Number	VPA055755	---	---	---
Sample Date	13 Oct 2023	---	---	---
Machine Hours	128	---	---	---
Oil Hours	128	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	---	---	---
Base Number (BN)	mg KOH/g	█ 9.4	---	---	---
Oxidation (PA)	%	58	---	---	---

CONTAMINATION

Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	50	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 25	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 31	---	---	---

WEAR METALS

Iron	ppm	█ 12	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 15	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 63	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1385	---	---	---
Magnesium	ppm	█ 782	---	---	---
Zinc	ppm	█ 1266	---	---	---
Phosphorus	ppm	█ 1040	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 20	---	---	---

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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: VP151756

Unique No: 10708781

Signed: Don Baldrige

Report Date: 25 Oct 2023

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GRAPHS

