

OIL ANALYSIS REPORT

**VOLVO
PENTA**

ART AGRESTA VOLVO PENTA 2014 PRINCESS V39 (S/N NOT GIVEN) - STARBOARD DIESEL ENGINE

Sample No: VPA033497

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA033497	---	---	---
Sample Date	19 Oct 2023	---	---	---
Machine Hours	20	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	---	---	---
Base Number (BN)	mg KOH/g	█ 11.7	---	---	---
Oxidation (PA)	%	59	---	---	---

CONTAMINATION

Soot %	%	█ 0	---	---	---
Nitration (PA)	%	44	---	---	---
Sulfation (PA)	%	55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 9	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 4	---	---	---

WEAR METALS

Iron	ppm	█ 10	---	---	---
Copper	ppm	█ < 1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 5	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 30	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 3062	---	---	---
Magnesium	ppm	█ 170	---	---	---
Zinc	ppm	█ 1196	---	---	---
Phosphorus	ppm	█ 947	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 38	---	---	---

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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 acceptable for the time in service.

Depot: VP610610

Unique No: 10701737

Signed: Don Baldrige

Report Date: 21 Oct 2023

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GRAPHS

