

OIL ANALYSIS REPORT

VOLVO PENTA

RN201347 - STARBOARD DIESEL ENGINE

Sample No: VPA050613

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA050613	VPA040232	---	---
Sample Date	07 Sep 2023	19 Nov 2021	---	---
Machine Hours	980	585	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.36	█ 13.6	---	---
Base Number (BN)	mg KOH/g	█ 7.6	---	---	---
Oxidation (PA)	%	66	76	---	---

CONTAMINATION

Soot %	%	█ 0.5	█ 0.1	---	---
Nitration (PA)	%	72	52	---	---
Sulfation (PA)	%	59	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 5	█ 4	---	---
Sodium	ppm	█ 3	█ 4	---	---
Potassium	ppm	█ 5	█ 6	---	---

WEAR METALS

Iron	ppm	█ 34	█ 11	---	---
Copper	ppm	█ 58	█ 10	---	---
Lead	ppm	█ 1	█ <1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 0	█ <1	---	---
Chromium	ppm	█ 1	█ <1	---	---
Molybdenum	ppm	█ 9	█ 17	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	█ 0	█ <1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 2432	█ 2291	---	---
Magnesium	ppm	█ 274	█ 50	---	---
Zinc	ppm	█ 1355	█ 1061	---	---
Phosphorus	ppm	█ 1077	█ 981	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 113	█ 146	---	---

ADVANCED DIESEL

1029 INDUSTRIAL BLVD, UNIT 2

NAPLES, FL

US 34104

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Diagnosis

No corrective action is recommended at this time. 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: VPADVNP

Unique No: 10643602

Signed: Doug Bogart

Report Date: 12 Sep 2023

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GRAPHS

