

OIL ANALYSIS REPORT

VOLVO PENTA

BRAD HARMON TIARA BRAD HARMON (S/N NOT GIVEN) - STARBOARD DIESEL ENGINE

Sample No: VPA050830

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA050830	---	---	---
Sample Date	19 Nov 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

Steve's Marine Service West

255 S. Ketcham Ave.

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US 11701

Contact: Steven Stavracos

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.7	---	---	---
Base Number (BN)	mg KOH/g	█ 9.7	---	---	---
Oxidation (PA)	%	60	---	---	---

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 %	%	█ 0.1	---	---	---
Nitration (PA)	%	53	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 3	---	---	---

WEAR METALS

Iron	ppm	█ 14	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ 15	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 7	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 51	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1217	---	---	---
Magnesium	ppm	█ 780	---	---	---
Zinc	ppm	█ 1215	---	---	---
Phosphorus	ppm	█ 1006	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 28	---	---	---

Depot: VP610610

Unique No: 10751239

Signed: Sean Felton

Report Date: 21 Nov 2023

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GRAPHS

