

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA 2006064390 - STARBOARD DIESEL ENGINE

Sample No: VPA051868

Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number	VPA051868	---	---	---
Sample Date	07 Sep 2023	---	---	---
Machine Hours	1050	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

North Harbor Diesel Inc

720 30Th Street
ANACORTES, WA
US 98221
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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.7	---	---	---
Base Number (BN)	mg KOH/g	█ 9.4	---	---	---
Oxidation (PA)	%	74	---	---	---

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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.

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	75	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 11	---	---	---
Copper	ppm	█ 7	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 87	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1429	---	---	---
Magnesium	ppm	█ 946	---	---	---
Zinc	ppm	█ 1255	---	---	---
Phosphorus	ppm	█ 1008	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 140	---	---	---

Depot: VP179089
Unique No: 10649626
Signed: Sean Felton
Report Date: 20 Sep 2023

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GRAPHS

