

OIL ANALYSIS REPORT

VOLVO PENTA

PACIFIC NORTHWEST YACHT SAM VOLVO PENTA 2300072768 - STARBOARD DIESEL ENGINE

Sample No: VPA036842

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA036842	---	---	---
Sample Date	20 Jul 2023	---	---	---
Machine Hours	882	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 14.9	---	---	---
Base Number (BN)	mg KOH/g	█ 7.8	---	---	---
Oxidation (PA)	%	78	---	---	---

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 suitable for further service.

CONTAMINATION

Soot %	%	█ 1.2	---	---	---
Nitration (PA)	%	107	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 4	---	---	---

WEAR METALS

Iron	ppm	█ 84	---	---	---
Copper	ppm	█ 9	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 32	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1531	---	---	---
Magnesium	ppm	█ 809	---	---	---
Zinc	ppm	█ 942	---	---	---
Phosphorus	ppm	█ 764	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 91	---	---	---

Depot: VP794951
Unique No: 10577336
Signed: Doug Bogart
Report Date: 31 Jul 2023

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GRAPHS

