

OIL ANALYSIS REPORT

VOLVO PENTA

BRUCE RANNEY VOLVO PENTA 7008480215 - STARBOARD DIESEL ENGINE

Sample No: VPA059824

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA059824	VPA044506	---	---
Sample Date	29 Oct 2023	25 Oct 2022	---	---
Machine Hours	0	323	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 14.3	█ 13.4	---	---
Base Number (BN)	mg KOH/g	█ 8.1	█ 11.4	---	---
Oxidation (PA)	%	61	59	---	---

CONTAMINATION

Soot %	%	█ 0.3	█ 0.4	---	---
Nitration (PA)	%	48	49	---	---
Sulfation (PA)	%	55	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 8	█ 8	---	---
Sodium	ppm	█ 2	█ 1	---	---
Potassium	ppm	█ 6	█ 0	---	---

WEAR METALS

Iron	ppm	█ 6	█ 25	---	---
Copper	ppm	█ 12	█ 14	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ <1	█ <1	---	---
Chromium	ppm	█ <1	█ 1	---	---
Molybdenum	ppm	█ 4	█ 58	---	---
Nickel	ppm	█ <1	█ 2	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ <1	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1776	█ 1044	---	---
Magnesium	ppm	█ 146	█ 933	---	---
Zinc	ppm	█ 1050	█ 1241	---	---
Phosphorus	ppm	█ 985	█ 992	---	---
Barium	ppm	█ 3	█ 0	---	---
Boron	ppm	█ 164	█ 1	---	---

BAY MARINE

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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 suitable for further service.

Depot: VP1174336

Unique No: 10715311

Signed: Don Baldrige

Report Date: 31 Oct 2023

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GRAPHS

