

OIL ANALYSIS REPORT

VOLVO PENTA

JAMES REED VOLVO PENTA 7011451093 - PORT DIESEL ENGINE

Sample No: VPA051844

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA051844	VPA050571	---	---
Sample Date	17 Nov 2023	21 Aug 2023	---	---
Machine Hours	516	0	---	---
Oil Hours	15	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	ABNORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.0	█ 12.5	---	---
Base Number (BN)	mg KOH/g	█ 10.2	█ 9.8	---	---
Oxidation (PA)	%	57	55	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	43	45	---	---
Sulfation (PA)	%	52	51	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 3	▲ 26	---	---
Sodium	ppm	█ 1	█ 18	---	---
Potassium	ppm	█ <1	█ 3	---	---

WEAR METALS

Iron	ppm	█ <1	█ 28	---	---
Copper	ppm	█ 5	█ 60	---	---
Lead	ppm	█ 0	█ 25	---	---
Tin	ppm	█ <1	█ 1	---	---
Aluminum	ppm	█ <1	▲ 17	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 53	█ 60	---	---
Nickel	ppm	█ 0	█ 2	---	---
Titanium	ppm	█ 0	█ <1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ 2	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	█ 1049	█ 1076	---	---
Magnesium	ppm	█ 858	█ 1006	---	---
Zinc	ppm	█ 1150	█ 1224	---	---
Phosphorus	ppm	█ 976	█ 1028	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 8	█ 0	---	---

ONE WATER YACHT

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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 acceptable for the time in service.

Depot: VP1134827

Unique No: 10764734

Signed: Don Baldrige

Report Date: 01 Dec 2023

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GRAPHS

