

OIL ANALYSIS REPORT

**VOLVO
PENTA**

BELLA LUNA VOLVO PENTA A355544 - PORT DIESEL ENGINE

Sample No: VPA058508

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

SAMPLE INFORMATION

Sample Number	VPA058508	VPA056529	VPA046509	---
Sample Date	15 Dec 2023	31 Oct 2023	28 Mar 2023	---
Machine Hours	614	606	552	---
Oil Hours	6	50	50	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	NORMAL	NORMAL	ATTENTION	---

OIL CONDITION

Visc @ 100°C	cSt	13.3	13.4	13.3	---
Base Number (BN)	mg KOH/g	10.1	10.1	10.2	---
Oxidation (PA)	%	53	54	54	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.3	0.3	0.2	---
Nitration (PA)	%	43	43	43	---
Sulfation (PA)	%	52	52	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	4	7	---
Sodium	ppm	4	3	24	---
Potassium	ppm	<1	0	<1	---

WEAR METALS

Iron	ppm	15	13	27	---
Copper	ppm	6	5	9	---
Lead	ppm	12	12	16	---
Tin	ppm	<1	0	1	---
Aluminum	ppm	5	5	▲ 71	---
Chromium	ppm	<1	<1	4	---
Molybdenum	ppm	57	56	58	---
Nickel	ppm	0	2	1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	<1	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	<1	<1	---

ADDITIVES

Calcium	ppm	1006	990	1013	---
Magnesium	ppm	972	954	930	---
Zinc	ppm	1261	1255	1190	---
Phosphorus	ppm	980	1049	997	---
Barium	ppm	0	0	0	---
Boron	ppm	<1	0	2	---

Outstanding 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 acceptable for the time in service.

Depot: VP153685
Unique No: 10792806
Signed: Don Baldrige
Report Date: 20 Dec 2023

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GRAPHS

