

OIL ANALYSIS REPORT

VOLVO PENTA

BELLA LUNA VOLVO PENTA A361808 - STARBOARD DIESEL ENGINE

Sample No: VPA049849

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

SAMPLE INFORMATION

Sample Number	VPA049849	VPA046506	---	---
Sample Date	31 Oct 2023	28 Mar 2023	---	---
Machine Hours	0	552	---	---
Oil Hours	50	50	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	█ 13.3	---	---
Base Number (BN)	mg KOH/g	█ 10.1	█ 10.1	---	---
Oxidation (PA)	%	55	55	---	---

CONTAMINATION

Soot %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	43	43	---	---
Sulfation (PA)	%	52	53	---	---
Glycol	%	NEG	█ 0.0	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 5	█ 8	---	---
Sodium	ppm	█ 8	█ 22	---	---
Potassium	ppm	█ <1	█ <1	---	---

WEAR METALS

Iron	ppm	█ 21	█ 28	---	---
Copper	ppm	█ 9	█ 9	---	---
Lead	ppm	█ 14	█ 15	---	---
Tin	ppm	█ <1	█ 1	---	---
Aluminum	ppm	█ 18	█ 71	---	---
Chromium	ppm	█ 2	█ 4	---	---
Molybdenum	ppm	█ 69	█ 57	---	---
Nickel	ppm	█ 1	█ 1	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ <1	█ 0	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	█ 1102	█ 1011	---	---
Magnesium	ppm	█ 1083	█ 900	---	---
Zinc	ppm	█ 1331	█ 1156	---	---
Phosphorus	ppm	█ 1180	█ 979	---	---
Barium	ppm	█ 4	█ 0	---	---
Boron	ppm	█ 0	█ 2	---	---

Outstanding Marine

PO Box 274
GALENA, MD
US 21635
Contact: Ronda Bolinger
rlwb@verizon.net
T:
F:

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: VP153685
Unique No: 10724905
Signed: Sean Felton
Report Date: 03 Nov 2023

OIL ANALYSIS REPORT



GRAPHS

