

OIL ANALYSIS REPORT

VOLVO PENTA

BLAKE LANTZ PATRICK/502824-5250 VOLVO PENTA A326432 - STARBOARD DIESEL ENGINE

Sample No: VPA059202

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

SAMPLE INFORMATION

Sample Number	VPA059202	VPA056227	---	---
Sample Date	12 Mar 2024	22 Mar 2023	---	---
Machine Hours	739	640	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

Endor Marine LLC - Coastal Marine - 152124
4300 11th Ave. NW
SEATTLE, WA
US 98107
Contact: WILLOW YANARELLA
service@coastalmarineengine.com
T: (206)784-3703
F: (206)784-8823

OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	█ 13.9	---	---
Base Number (BN)	mg KOH/g	█ 10.5	█ 11.1	---	---
Oxidation (PA)	%	68	63	---	---

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.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	45	43	---	---
Sulfation (PA)	%	56	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 7	█ 8	---	---
Sodium	ppm	█ 0	█ 4	---	---
Potassium	ppm	█ 1	█ <1	---	---

WEAR METALS

Iron	ppm	█ 6	█ 5	---	---
Copper	ppm	█ 5	█ 3	---	---
Lead	ppm	█ 3	█ 2	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 2	█ 3	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 56	█ 46	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	█ <1	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	<1	---	---

ADDITIVES

Calcium	ppm	█ 1409	█ 1274	---	---
Magnesium	ppm	█ 689	█ 682	---	---
Zinc	ppm	█ 1058	█ 1018	---	---
Phosphorus	ppm	█ 916	█ 881	---	---
Barium	ppm	█ 0	█ 2	---	---
Boron	ppm	█ 40	█ 51	---	---

Depot: VP794951
Unique No: 10928144
Signed: Don Baldrige
Report Date: 18 Mar 2024

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GRAPHS

