

OIL ANALYSIS REPORT

VOLVO PENTA

NADINE URUIOLI MAJESKI VOLVO PENTA A997285 - STARBOARD DIESEL ENGINE

Sample No: VPA055108

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

SAMPLE INFORMATION

Sample Number	VPA055108	VPA029724	---	---
Sample Date	02 Aug 2023	22 Mar 2021	---	---
Machine Hours	352	193	---	---
Oil Hours	352	0	---	---
Oil Changed	Not Changd	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

Helmut's Marine Service

619 Canal Street
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Contact: NADINE URUIOLI
SERVICE@HELMUTSMARINE.COM

T: x:

F: x:

OIL CONDITION

Visc @ 100°C	cSt	█ 14.1	█ 13.4	---	---
Base Number (BN)	mg KOH/g	█ 8.3	---	---	---
Oxidation (PA)	%	47	62	---	---

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.

CONTAMINATION

Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	53	50	---	---
Sulfation (PA)	%	48	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 4	█ 7	---	---
Sodium	ppm	█ 2	█ 1	---	---
Potassium	ppm	█ 4	█ 0	---	---

WEAR METALS

Iron	ppm	█ 5	█ 8	---	---
Copper	ppm	█ <1	█ 3	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ <1	█ 2	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 5	█ 59	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	█ <1	█ <1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 1276	█ 1155	---	---
Magnesium	ppm	█ 721	█ 926	---	---
Zinc	ppm	█ 830	█ 1252	---	---
Phosphorus	ppm	█ 680	█ 1087	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 89	█ 8	---	---

Depot: VP152741

Unique No: 10587861

Signed: Don Baldrige

Report Date: 07 Aug 2023

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GRAPHS

