

OIL ANALYSIS REPORT

VOLVO PENTA

NADINE URUIOLI VOLVO PENTA A474687 - INBOARD - DIESEL ENGINE

Sample No: VPA042298

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA042298	VPA029320	---	---
Sample Date	23 Jun 2023	30 Jan 2020	---	---
Machine Hours	213	100	---	---
Oil Hours	213	100	---	---
Oil Changed	Not Changd	Not Changd	---	---
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	█ 13.1	█ 13.1	---	---
Base Number (BN)	mg KOH/g	█ 10.3	---	---	---
Oxidation (PA)	%	53	43	---	---

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	█ 0.2	---	---
Nitration (PA)	%	46	42	---	---
Sulfation (PA)	%	51	43	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 14	█ 28	---	---
Sodium	ppm	█ 2	█ 6	---	---
Potassium	ppm	█ 1	█ 3	---	---

WEAR METALS

Iron	ppm	█ 26	█ 21	---	---
Copper	ppm	█ 6	█ 11	---	---
Lead	ppm	█ 0	█ 2	---	---
Tin	ppm	█ <1	█ 1	---	---
Aluminum	ppm	█ <1	█ 7	---	---
Chromium	ppm	█ 1	█ 1	---	---
Molybdenum	ppm	█ 59	█ 52	---	---
Nickel	ppm	█ 2	█ 2	---	---
Titanium	ppm	█ <1	█ <1	---	---
Silver	ppm	█ 1	█ 0	---	---
Manganese	ppm	█ <1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1206	█ 1328	---	---
Magnesium	ppm	985	█ 772	---	---
Zinc	ppm	█ 1359	█ 1073	---	---
Phosphorus	ppm	█ 1082	█ 1006	---	---
Barium	ppm	█ 15	█ <1	---	---
Boron	ppm	█ 2	█ 15	---	---

Depot: VP152741

Unique No: 10538085

Signed: Don Baldrige

Report Date: 04 Jul 2023

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GRAPHS

