

OIL ANALYSIS REPORT

VOLVO PENTA

NADINE URUIOLI 2300320 VOLVO PENTA 4012112389 - CENTER DIESEL ENGINE

Sample No: VPA055826

Oil Type: VOLVO 10W40

SAMPLE INFORMATION

Sample Number	VPA055826	---	---	---
Sample Date	26 Jun 2023	---	---	---
Machine Hours	1307	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

Helmut's Marine Service

619 Canal Street
SAN RAFAEL, CA
US 94901-3545
Contact: NADINE URUIOLI
SERVICE@HELMUTSMARINE.COM

T: x:

F: x:

OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	---	---	---
Base Number (BN)	mg KOH/g	█ 5.8	---	---	---
Oxidation (PA)	%	52	---	---	---

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	---	---	---
Nitration (PA)	%	83	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 23	---	---	---
Sodium	ppm	█ 8	---	---	---
Potassium	ppm	█ 3	---	---	---

WEAR METALS

Iron	ppm	█ 62	---	---	---
Copper	ppm	█ 17	---	---	---
Lead	ppm	█ < 1	---	---	---
Tin	ppm	█ 4	---	---	---
Aluminum	ppm	█ 10	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 47	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1883	---	---	---
Magnesium	ppm	█ 19	---	---	---
Zinc	ppm	█ 942	---	---	---
Phosphorus	ppm	752	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

Depot: VP152741

Unique No: 10545727

Signed: Don Baldrige

Report Date: 06 Jul 2023

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GRAPHS

