

OIL ANALYSIS REPORT

VOLVO PENTA

NADINE URUIOLI BEN VYEMURA 2300474 KOHLER 336KGMJP0031 - CENTER GENSET

Sample No: VPA049693

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

SAMPLE INFORMATION

Sample Number	VPA049693	---	---	---
Sample Date	15 Sep 2023	---	---	---
Machine Hours	34	---	---	---
Oil Hours	34	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 14.4	---	---	---
Base Number (BN)	mg KOH/g	█ 8.1	---	---	---
Oxidation (PA)	%	47	---	---	---

CONTAMINATION

Soot %	%	█ 0	---	---	---
Nitration (PA)	%	47	---	---	---
Sulfation (PA)	%	48	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 13	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 4	---	---	---

WEAR METALS

Iron	ppm	█ 9	---	---	---
Copper	ppm	█ 6	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 1	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 4	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1348	---	---	---
Magnesium	ppm	█ 629	---	---	---
Zinc	ppm	█ 1122	---	---	---
Phosphorus	ppm	█ 938	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	146	---	---	---

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SERVICE@HELMUTSMARINE.COM
T: x:
F: x:

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: VP152741
Unique No: 10661539
Signed: Doug Bogart
Report Date: 26 Sep 2023

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GRAPHS

