

# OIL ANALYSIS REPORT

# VOLVO PENTA

## AZ65400 - CENTER DIESEL ENGINE

Sample No: VPA056302

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

### SAMPLE INFORMATION

Sample Number	VPA056302	VPA039700	---	---
Sample Date	11 Aug 2023	03 Jul 2023	---	---
Machine Hours	1028	1011	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.5	█ 14.5	---	---
Base Number (BN)	mg KOH/g	█ 8.0	█ 7.6	---	---
Oxidation (PA)	%	█ 62	█ 59	---	---

### CONTAMINATION

Soot %	%	█ 0.6	█ 0.6	---	---
Nitration (PA)	%	█ 83	█ 80	---	---
Sulfation (PA)	%	█ 55	█ 53	---	---
Glycol	%	█ NEG	█ NEG	---	---
Fuel	%	█ <1.0	█ <1.0	---	---
Silicon	ppm	█ 10	█ 10	---	---
Sodium	ppm	█ 0	█ 0	---	---
Potassium	ppm	█ 2	█ 2	---	---

### WEAR METALS

Iron	ppm	█ 41	█ 38	---	---
Copper	ppm	█ 10	█ 9	---	---
Lead	ppm	█ 4	█ 4	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 18	█ 17	---	---
Chromium	ppm	█ 2	█ 2	---	---
Molybdenum	ppm	█ 92	█ 85	---	---
Nickel	ppm	█ 1	█ 1	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ <1	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	█ 0	█ 0	---	---

### ADDITIVES

Calcium	ppm	█ 2125	█ 1978	---	---
Magnesium	ppm	█ 171	█ 165	---	---
Zinc	ppm	█ 1226	█ 1177	---	---
Phosphorus	ppm	█ 1063	█ 1006	---	---
Barium	ppm	█ 2	█ 0	---	---
Boron	ppm	█ 42	█ 42	---	---

### ADVANCED DIESEL

1029 INDUSTRIAL BLVD, UNIT 2  
NAPLES, FL  
US 34104  
Contact: KEITH SPICER  
keith\_advanceddiesel@yahoo.com  
T: (239)580-8731  
F:

### Diagnosis

No corrective action is recommended at this time. 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: VPADV NAP  
Unique No: 10603039  
Signed: Doug Bogart  
Report Date: 14 Aug 2023

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## GRAPHS

