

OIL ANALYSIS REPORT

VOLVO PENTA

AZ65402 - PORT DIESEL ENGINE

Sample No: VPA056310

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

SAMPLE INFORMATION

Sample Number	VPA056310	VPA056144	---	---
Sample Date	11 Aug 2023	03 Jul 2023	---	---
Machine Hours	1053	1026	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	MARGINAL	MARGINAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 14.5	█ 14.5	---	---
Base Number (BN)	mg KOH/g	█ 7.9	█ 7.5	---	---
Oxidation (PA)	%	█ 56	█ 53	---	---

CONTAMINATION

Soot %	%	█ 0.6	█ 0.6	---	---
Nitration (PA)	%	█ 76	█ 75	---	---
Sulfation (PA)	%	█ 53	█ 51	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 8	█ 8	---	---
Sodium	ppm	█ 0	█ 0	---	---
Potassium	ppm	█ 1	█ 2	---	---

WEAR METALS

Iron	ppm	█ 27	█ 26	---	---
Copper	ppm	█ 7	█ 7	---	---
Lead	ppm	█ 2	█ 1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	▲ 22	▲ 21	---	---
Chromium	ppm	█ 2	█ 2	---	---
Molybdenum	ppm	█ 92	█ 86	---	---
Nickel	ppm	█ 1	█ 1	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ <1	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 2132	█ 1987	---	---
Magnesium	ppm	█ 184	█ 175	---	---
Zinc	ppm	█ 1247	█ 1188	---	---
Phosphorus	ppm	█ 1067	█ 1026	---	---
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. The aluminum level is marginal. All other 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: VPADVNP
Unique No: 10603041
Signed: Doug Bogart
Report Date: 14 Aug 2023

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GRAPHS

