

OIL ANALYSIS REPORT

**VOLVO
PENTA**

ROBERT DIMURRO MATTHEW DOW VOLVO PENTA A1076822 - STARBOARD DIESEL ENGINE

Sample No: VPA060431

Oil Type: VALVOLINE PREMIUM BLUE

SAMPLE INFORMATION

Sample Number	VPA060431	VPA042772	VPA036000	---
Sample Date	04 Oct 2023	29 Sep 2022	06 Oct 2021	---
Machine Hours	193	173	140	---
Oil Hours	20	33	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

OIL CONDITION

Visc @ 100°C	cSt	14.6	14.2	14.0	---
Base Number (BN)	mg KOH/g	8.9	10.9	10.2	---
Oxidation (PA)	%	69	73	65	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.2	---
Nitration (PA)	%	58	64	60	---
Sulfation (PA)	%	55	60	56	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	6	5	---
Sodium	ppm	1	3	4	---
Potassium	ppm	0	<1	6	---

WEAR METALS

Iron	ppm	5	12	13	---
Copper	ppm	<1	2	6	---
Lead	ppm	0	<1	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	1	2	<1	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	41	38	6	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1088	1382	2416	---
Magnesium	ppm	778	654	146	---
Zinc	ppm	859	898	1110	---
Phosphorus	ppm	652	757	1031	---
Barium	ppm	0	0	0	---
Boron	ppm	48	84	172	---

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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.

Depot: VP443016
Unique No: 10742655
Signed: Sean Felton
Report Date: 16 Nov 2023

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GRAPHS

