

OIL ANALYSIS REPORT

VOLVO PENTA

STEVE WHITENER MATTHEW DOW VOLVO PENTA 7008473028 - STARBOARD DIESEL ENGINE

Sample No: VPA060804

Oil Type: VALVOLINE PREMIUM BLUE

SAMPLE INFORMATION

Sample Number	VPA060804	VPA043332	---	---
Sample Date	09 Oct 2023	04 Oct 2022	---	---
Machine Hours	502	480	---	---
Oil Hours	22	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 14.6	█ 15.2	---	---
Base Number (BN)	mg KOH/g	█ 6.9	█ 11.4	---	---
Oxidation (PA)	%	67	76	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.3	█ 1.7	---	---
Nitration (PA)	%	58	92	---	---
Sulfation (PA)	%	53	73	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 8	█ 10	---	---
Sodium	ppm	█ 2	█ 2	---	---
Potassium	ppm	█ 0	█ 0	---	---

WEAR METALS

Iron	ppm	█ 7	█ 36	---	---
Copper	ppm	█ 13	█ 102	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 1	█ 2	---	---
Chromium	ppm	█ <1	█ 3	---	---
Molybdenum	ppm	█ 46	█ 69	---	---
Nickel	ppm	█ <1	█ 2	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ <1	█ 2	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1108	█ 1227	---	---
Magnesium	ppm	█ 868	█ 1089	---	---
Zinc	ppm	█ 935	█ 1380	---	---
Phosphorus	ppm	█ 719	█ 1113	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 40	█ 4	---	---

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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: 10742681
Signed: Don Baldrige
Report Date: 18 Nov 2023

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GRAPHS

