

OIL ANALYSIS REPORT

VOLVO PENTA

JOHN S. CUMMINS CUMMINS 73709629 - STARBOARD DIESEL ENGINE

Sample No: VPA055323
Oil Type: VALVOLINE 15W40

SAMPLE INFORMATION

Sample Number	VPA055323	---	---	---
Sample Date	27 Oct 2023	---	---	---
Machine Hours	300	---	---	---
Oil Hours	75	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 8.6	---	---	---
Oxidation (PA)	%	73	---	---	---

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	68	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 14	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 17	---	---	---
Copper	ppm	█ 21	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 5	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 45	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1310	---	---	---
Magnesium	ppm	█ 809	---	---	---
Zinc	ppm	█ 1057	---	---	---
Phosphorus	ppm	█ 849	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 46	---	---	---

BEST MARINE

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F:

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: VPBESTAR
Unique No: 10727895
Signed: Don Baldrige
Report Date: 08 Nov 2023

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GRAPHS

