

OIL ANALYSIS REPORT

**VOLVO
PENTA**

BELLINGER MANN 71053238235323 - STARBOARD DIESEL ENGINE

Sample No: VPA043575
Oil Type: MOBIL DELVAC 1 5W40

SAMPLE INFORMATION

Sample Number	VPA043575	---	---	---
Sample Date	05 Sep 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	---	---	---
Base Number (BN)	mg KOH/g	█ 7.6	---	---	---
Oxidation (PA)	%	90	---	---	---

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.

CONTAMINATION

Soot %	%	█ 1	---	---	---
Nitration (PA)	%	56	---	---	---
Sulfation (PA)	%	73	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 19	---	---	---
Copper	ppm	█ 31	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 81	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 1428	---	---	---
Magnesium	ppm	█ 840	---	---	---
Zinc	ppm	█ 1202	---	---	---
Phosphorus	ppm	█ 939	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 250	---	---	---

Depot: VP930782
Unique No: 10642984
Signed: Don Baldrige
Report Date: 13 Sep 2023

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GRAPHS

