

OIL ANALYSIS REPORT

VOLVO PENTA

AOS JOHN S KOHLER 33G6GMLD0006 - STARBOARD GENSET

Sample No: VPA051061

Oil Type: KOHLER 5W40 SYNTHETIC

SAMPLE INFORMATION

Sample Number	VPA051061	---	---	---
Sample Date	25 Mar 2024	---	---	---
Machine Hours	224	---	---	---
Oil Hours	224	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

Power Products Systems LLC

90 Bay State Road

WAKEFIELD, MA

US 01880

Contact: ERIC JELLISON

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F:

OIL CONDITION

Visc @ 100°C	cSt	● 10.1	---	---	---
Base Number (BN)	mg KOH/g	10.0	---	---	---
Oxidation (PA)	%	62	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	58	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.2	---	---	---
Silicon	ppm	■ 12	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 4	---	---	---

WEAR METALS

Iron	ppm	■ 22	---	---	---
Copper	ppm	■ 9	---	---	---
Lead	ppm	■ 3	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 6	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	263	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	3	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	1419	---	---	---
Magnesium	ppm	823	---	---	---
Zinc	ppm	1066	---	---	---
Phosphorus	ppm	917	---	---	---
Barium	ppm	3	---	---	---
Boron	ppm	295	---	---	---

Depot: VP153550

Unique No: 10951182

Signed: Don Baldrige

Report Date: 02 Apr 2024

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GRAPHS

