

OIL ANALYSIS REPORT

VOLVO PENTA

BRINE JB NORTHERN LIGHTS K08911 - CENTER GENSET

Sample No: VPA057117
Oil Type: SHELL ROTELLA T 30

SAMPLE INFORMATION

Sample Number	VPA057117	VPA003334	---	---
Sample Date	01 Dec 2023	18 Nov 2014	---	---
Machine Hours	11	226	---	---
Oil Hours	0	10	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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 US 02879
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OIL CONDITION

Visc @ 100°C	cSt	█ 14.1	█ 10.96	---	---
Base Number (BN)	mg KOH/g	█ 8.4	---	---	---
Oxidation (PA)	%	65	█ 12	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0	█ 0	---	---
Nitration (PA)	%	42	█ 25	---	---
Sulfation (PA)	%	55	█ 25	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 3	█ 2	---	---
Sodium	ppm	█ 8	█ 2	---	---
Potassium	ppm	█ 4	█ <1	---	---

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. 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.

WEAR METALS

Iron	ppm	█ 36	█ 9	---	---
Copper	ppm	█ 3	█ <1	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ 6	█ 2	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 65	█ 2	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1145	█ 2462	---	---
Magnesium	ppm	█ 943	█ 11	---	---
Zinc	ppm	█ 1277	█ 651	---	---
Phosphorus	ppm	█ 1063	█ 587	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 5	█ 4	---	---

Depot: VP153811
Unique No: 10777228
Signed: Angela Borella
Report Date: 08 Dec 2023

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GRAPHS

