

OIL ANALYSIS REPORT

**VOLVO
PENTA**

BOB HITT GB5406 FISCHER PANDA 2100210 - CENTER GENSET

Sample No: VPA036984

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA036984	VPA050510	---	---
Sample Date	11 Oct 2023	04 Jun 2023	---	---
Machine Hours	466	219	---	---
Oil Hours	200	219	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ATTENTION	---	---

GRAND BANKS

450 SW SALEM RD

STUART, FL

US 34994

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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.2	▲ 11.4	---	---
Base Number (BN)	mg KOH/g	█ 9.2	█ 8.8	---	---
Oxidation (PA)	%	█ 55	49	---	---

CONTAMINATION

Soot %	%	█ 0.1	█ 0.5	---	---
Nitration (PA)	%	█ 44	56	---	---
Sulfation (PA)	%	█ 50	49	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 1.6	---	---
Silicon	ppm	█ 4	█ 33	---	---
Sodium	ppm	█ 2	█ 3	---	---
Potassium	ppm	█ 0	█ 4	---	---

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.

WEAR METALS

Iron	ppm	█ 4	█ 37	---	---
Copper	ppm	█ 3	█ 64	---	---
Lead	ppm	█ 0	█ 4	---	---
Tin	ppm	█ <1	█ 3	---	---
Aluminum	ppm	█ 1	█ 3	---	---
Chromium	ppm	█ <1	█ 1	---	---
Molybdenum	ppm	█ 64	█ 36	---	---
Nickel	ppm	█ <1	█ 1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ 3	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 1302	█ 1032	---	---
Magnesium	ppm	█ 799	█ 948	---	---
Zinc	ppm	█ 1166	█ 1170	---	---
Phosphorus	ppm	█ 994	█ 983	---	---
Barium	ppm	█ 0	█ 5	---	---
Boron	ppm	█ 2	█ 3	---	---

Depot: VP531377

Unique No: 10696485

Signed: Don Baldrige

Report Date: 17 Oct 2023

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GRAPHS

