

OIL ANALYSIS REPORT

**VOLVO
PENTA**

PRELLWITZ WESTERBEKE 2090720H - GENSET

Sample No: VPA035708

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA035708	VPA035707	---	---
Sample Date	23 May 2023	07 May 2023	---	---
Machine Hours	0	496	---	---
Oil Hours	1	1	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	SEVERE	---	---

Walstrom Marine
501 Bay Street
HARBOR SPRINGS, MI
US 49740
Contact: RICK HEINY
rheiny@walstrom.com
T:
F:

OIL CONDITION

Visc @ 100°C	cSt	14.2	---	---	---
Base Number (BN)	mg KOH/g	9.7	13.0	---	---
Oxidation (PA)	%	64	60	---	---

CONTAMINATION

Water	%	---	1.51	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	54	62	---	---
Sulfation (PA)	%	54	38	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.4	---	---
Silicon	ppm	8	7	---	---
Sodium	ppm	3	0	---	---
Potassium	ppm	2	4	---	---

WEAR METALS

Iron	ppm	47	23	---	---
Copper	ppm	2	<1	---	---
Lead	ppm	0	0	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	6	5	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	41	40	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1547	1686	---	---
Magnesium	ppm	465	498	---	---
Zinc	ppm	1200	1258	---	---
Phosphorus	ppm	1000	1027	---	---
Barium	ppm	0	0	---	---
Boron	ppm	72	65	---	---

Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Cylinder, crank, or cam shaft wear is indicated. 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: VP154879
Unique No: 10485202
Signed: Sean Felton
Report Date: 25 May 2023

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GRAPHS

