

OIL ANALYSIS REPORT

VOLVO PENTA

ROBERT MERCIL KOHLER SGM32BHST - CENTER GENSET

Sample No: VPA036667
Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA036667	---	---	---
Sample Date	09 May 2024	---	---	---
Machine Hours	920	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

Power House Marina
13255 Biscayne Blvd
NORTH MIAMI, FL
US 33181
Contact: David Marcus
sales@Powerhousemarina.com
T: x:
F: x:

OIL CONDITION

Visc @ 100°C	cSt	█ 14.9	---	---	---
Base Number (BN)	mg KOH/g	█ 7.8	---	---	---
Oxidation (PA)	%	72	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	74	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 208	---	---	---
Sodium	ppm	▲ 292	---	---	---
Potassium	ppm	█ 17	---	---	---

Diagnosis

We recommend an early resample to monitor this condition. Piston, ring and cylinder wear is indicated. The high sodium (Na) level indicates the possible presence of salt water. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil.

WEAR METALS

Iron	ppm	▲ 155	---	---	---
Copper	ppm	█ 22	---	---	---
Lead	ppm	█ 6	---	---	---
Tin	ppm	█ 4	---	---	---
Aluminum	ppm	▲ 280	---	---	---
Chromium	ppm	▲ 75	---	---	---
Molybdenum	ppm	█ 55	---	---	---
Nickel	ppm	█ 5	---	---	---
Titanium	ppm	█ 3	---	---	---
Silver	ppm	█ 3	---	---	---
Manganese	ppm	█ 8	---	---	---
Vanadium	ppm	2	---	---	---

ADDITIVES

Calcium	ppm	█ 2103	---	---	---
Magnesium	ppm	█ 861	---	---	---
Zinc	ppm	█ 1399	---	---	---
Phosphorus	ppm	█ 1082	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 39	---	---	---

Depot: VP154668
Unique No: 11033681
Signed: Jonathan Hester
Report Date: 21 May 2024

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GRAPHS

