

OIL ANALYSIS REPORT

VOLVO PENTA

3573/60-24 NORTHERN LIGHTS 8432-60473 - CENTER GENSET

Sample No: VPA054062
Oil Type: SHELL 15W40

SAMPLE INFORMATION

Sample Number	VPA054062	---	---	---
Sample Date	23 Apr 2024	---	---	---
Machine Hours	73	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

GRAND BANKS

450 SW SALEM RD
STUART, FL
US 34994
Contact: ROBERT ANTONA
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T: (609)384-5290
F:

OIL CONDITION

Visc @ 100°C	cSt	● 11.1	---	---	---
Base Number (BN)	mg KOH/g	9.6	---	---	---
Oxidation (PA)	%	48	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	46	---	---	---
Sulfation (PA)	%	48	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.3	---	---	---
Silicon	ppm	■ 8	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ 0	---	---	---

WEAR METALS

Iron	ppm	■ 5	---	---	---
Copper	ppm	■ 3	---	---	---
Lead	ppm	■ 5	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 179	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 1450	---	---	---
Magnesium	ppm	■ 856	---	---	---
Zinc	ppm	■ 1044	---	---	---
Phosphorus	ppm	■ 920	---	---	---
Barium	ppm	■ 2	---	---	---
Boron	ppm	■ 209	---	---	---

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.

Depot: VP531377
Unique No: 11019447
Signed: Don Baldrige
Report Date: 13 May 2024

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GRAPHS

