

OIL ANALYSIS REPORT

VOLVO PENTA

BAY YACHTS VOLVO PENTA 70112052300 - STARBOARD DIESEL ENGINE

Sample No: VPA036574

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA036574	---	---	---
Sample Date	05 Jul 2023	---	---	---
Machine Hours	53	---	---	---
Oil Hours	53	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	MARGINAL	---	---	---

WINTER HARBOR MARINA

604 CO RT 37
CENTRAL SQUARE, NY
US 13036

Contact: SERVICE MANAGER
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F:

OIL CONDITION

Visc @ 100°C	cSt	12.4	---	---	---
Base Number (BN)	mg KOH/g	9.4	---	---	---
Oxidation (PA)	%	63	---	---	---

CONTAMINATION

Soot %	%	0.2	---	---	---
Nitration (PA)	%	48	---	---	---
Sulfation (PA)	%	54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	2.6	---	---	---
Silicon	ppm	27	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	2	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Fuel content negligible. 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. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	10	---	---	---
Copper	ppm	12	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	58	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	1328	---	---	---
Magnesium	ppm	693	---	---	---
Zinc	ppm	1109	---	---	---
Phosphorus	ppm	923	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	27	---	---	---

Depot: VP1376550

Unique No: 10549122

Signed: Doug Bogart

Report Date: 11 Jul 2023

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GRAPHS

