

OIL ANALYSIS REPORT

VOLVO PENTA

3506 OSPREY VOLVO PENTA 7011202883 - STARBOARD DIESEL ENGINE

Sample No: VPA056450

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

SAMPLE INFORMATION

Sample Number	VPA056450	---	---	---
Sample Date	29 Jan 2024	---	---	---
Machine Hours	126	---	---	---
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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F:

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.6	---	---	---
Base Number (BN)	mg KOH/g	■ 7.9	---	---	---
Oxidation (PA)	%	47	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.4	---	---	---
Nitration (PA)	%	62	---	---	---
Sulfation (PA)	%	48	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 3.1	---	---	---
Silicon	ppm	■ 40	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 5	---	---	---

WEAR METALS

Iron	ppm	■ 25	---	---	---
Copper	ppm	■ 108	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 6	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 68	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	■ 2285	---	---	---
Magnesium	ppm	■ 19	---	---	---
Zinc	ppm	■ 1043	---	---	---
Phosphorus	ppm	■ 942	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 166	---	---	---

Diagnosis

Oil and filter 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. Metal levels are typical for a new component breaking in. Light fuel dilution occurring. No other contaminants were detected 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: 10874256

Signed: Sean Felton

Report Date: 14 Feb 2024

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GRAPHS

