

OIL ANALYSIS REPORT

VOLVO PENTA

3684/NAUTI DOG VOLVO PENTA 70112018783 - STARBOARD DIESEL ENGINE

Sample No: VPA049520
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA049520	---	---	---
Sample Date	14 Feb 2024	---	---	---
Machine Hours	158	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	MARGINAL	---	---	---

GRAND BANKS

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

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.2	---	---	---
Base Number (BN)	mg KOH/g	■ 8.3	---	---	---
Oxidation (PA)	%	53	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	42	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 2.3	---	---	---
Silicon	ppm	■ 37	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 3	---	---	---

WEAR METALS

Iron	ppm	■ 19	---	---	---
Copper	ppm	■ 62	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 42	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 1419	---	---	---
Magnesium	ppm	■ 485	---	---	---
Zinc	ppm	■ 1149	---	---	---
Phosphorus	ppm	■ 957	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 77	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Light fuel dilution occurring. 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: 10888858
Signed: Jonathan Hester
Report Date: 26 Feb 2024

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GRAPHS

