

OIL ANALYSIS REPORT

VOLVO PENTA

NORTHLIGHT/3299 VOLVO PENTA 20132094166 - STARBOARD DIESEL ENGINE

Sample No: VPA049536

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

SAMPLE INFORMATION

Sample Number	VPA049536	---	---	---
Sample Date	29 Nov 2023	---	---	---
Machine Hours	341	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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	█ 12.8	---	---	---
Base Number (BN)	mg KOH/g	█ 8.9	---	---	---
Oxidation (PA)	%	58	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	59	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 23	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 20	---	---	---

WEAR METALS

Iron	ppm	█ 16	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 8	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 62	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1217	---	---	---
Magnesium	ppm	█ 1125	---	---	---
Zinc	ppm	█ 1408	---	---	---
Phosphorus	ppm	█ 1208	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 4	---	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. 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.

Depot: VP531377

Unique No: 10769484

Signed: Sean Felton

Report Date: 06 Dec 2023

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

