

# OIL ANALYSIS REPORT

# VOLVO PENTA

## NOTORIOUS VOLVO PENTA NOTORIOUS (S/N NOT GIVEN) - STARBOARD DIESEL ENGINE

Sample No: VPA049893

Oil Type: DIESEL ENGINE OIL SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA049893	---	---	---
Sample Date	02 Oct 2023	---	---	---
Machine Hours	682	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ATTENTION	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.2	---	---	---
Base Number (BN)	mg KOH/g	█ 9.4	---	---	---
Oxidation (PA)	%	58	---	---	---

### CONTAMINATION

Soot %	%	█ 1.5	---	---	---
Nitration (PA)	%	71	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	▲ 62	---	---	---
Potassium	ppm	█ 6	---	---	---

### WEAR METALS

Iron	ppm	█ 30	---	---	---
Copper	ppm	█ 10	---	---	---
Lead	ppm	█ < 1	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 61	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1059	---	---	---
Magnesium	ppm	█ 1039	---	---	---
Zinc	ppm	█ 1314	---	---	---
Phosphorus	ppm	█ 1060	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ < 1	---	---	---

#### Marine International Diesels Inc.

3600 HACIENDA BLVD UNIT G  
DAVIE, FL  
US 33314  
Contact: ASHANTI BURKE  
aburke@midiflorida.com  
T: (954)761-1086  
F: (954)761-1186

#### Diagnosis

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. All component wear rates are normal. The high sodium (Na) level indicates the possible presence of salt water. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VP694356  
Unique No: 10709756  
Signed: Jonathan Hester  
Report Date: 25 Oct 2023

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## GRAPHS

