

OIL ANALYSIS REPORT

VOLVO PENTA

RANES RANES VOLVO PENTA A1115111 - STARBOARD DIESEL ENGINE

Sample No: VPA029899

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA029899	---	---	---
Sample Date	19 Dec 2023	---	---	---
Machine Hours	195	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

Suncoast Diesel Marine Inc.

610 Mount Vernan St
OLDSMAR, FL
US 34677
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	---	---	---
Base Number (BN)	mg KOH/g	█ 10.0	---	---	---
Oxidation (PA)	%	65	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.6	---	---	---
Nitration (PA)	%	57	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 30	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ <1	---	---	---

WEAR METALS

Iron	ppm	█ 36	---	---	---
Copper	ppm	█ 34	---	---	---
Lead	ppm	█ 16	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	█ 24	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 39	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 2623	---	---	---
Magnesium	ppm	█ 186	---	---	---
Zinc	ppm	█ 1074	---	---	---
Phosphorus	ppm	█ 842	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 220	---	---	---

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: VP945077
Unique No: 10805130
Signed: Sean Felton
Report Date: 27 Dec 2023

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GRAPHS

