

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA 2071135392 - STARBOARD DIESEL ENGINE

Sample No: VPA049818

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA049818	---	---	---
Sample Date	09 Oct 2023	---	---	---
Machine Hours	667	---	---	---
Oil Hours	20	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	SEVERE	---	---	---

FLORIDA DETROIT DIESEL - 531006 - 1125774

1128 CHESTNUT AVE

PANAMA CITY, FL

US 32401

Contact: RICHARD ROBERTS

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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 7.7	---	---	---
Oxidation (PA)	%	59	---	---	---

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Piston, ring and cylinder wear is indicated. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	43	---	---	---
Sulfation (PA)	%	51	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 9	---	---	---
Sodium	ppm	▲ 111	---	---	---
Potassium	ppm	█ 9	---	---	---

WEAR METALS

Iron	ppm	◆ 224	---	---	---
Copper	ppm	█ 86	---	---	---
Lead	ppm	█ 17	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	◆ 133	---	---	---
Chromium	ppm	▲ 7	---	---	---
Molybdenum	ppm	█ 6	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 2	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1558	---	---	---
Magnesium	ppm	█ 131	---	---	---
Zinc	ppm	█ 1031	---	---	---
Phosphorus	ppm	█ 1027	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 126	---	---	---

Depot: VPFLOPAN

Unique No: 10687239

Signed: Jonathan Hester

Report Date: 13 Oct 2023

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GRAPHS

