

OIL ANALYSIS REPORT

**VOLVO
PENTA**

ANDREW SANCHEZ TOM VOLVO PENTA 1101059852 - STARBOARD DIESEL ENGINE

Sample No: VPA061878

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA061878	VPA041586	---	---
Sample Date	05 Apr 2024	02 Aug 2022	---	---
Machine Hours	659	634	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	SEVERE	ATTENTION	---	---

ADMIRALTY MARINE

2775 KURTZ ST, STE 12

SAN DIEGO, CA

US 92110

Contact: Terry Albee

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.7	█ 13.4	---	---
Base Number (BN)	mg KOH/g	█ 8.2	█ 9.9	---	---
Oxidation (PA)	%	53	54	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	71	67	---	---
Sulfation (PA)	%	49	50	---	---
Glycol	%	▲ 0.10	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 7	---	---
Sodium	ppm	▲ 851	● 107	---	---
Potassium	ppm	▲ 38	█ 8	---	---

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 recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is positive. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

WEAR METALS

Iron	ppm	█ 22	█ 13	---	---
Copper	ppm	█ 38	█ 6	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ 0	█ 1	---	---
Aluminum	ppm	█ 2	█ 2	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 6	█ 11	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	█ 0	█ <1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1202	█ 1224	---	---
Magnesium	ppm	█ 802	█ 636	---	---
Zinc	ppm	█ 767	█ 792	---	---
Phosphorus	ppm	█ 727	█ 664	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 109	█ 142	---	---

Depot: VP151529

Unique No: 10965781

Signed: Jonathan Hester

Report Date: 10 Apr 2024

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GRAPHS

