

OIL ANALYSIS REPORT

VOLVO PENTA

AOKI 4571 VOLVO PENTA 70112031176 - STARBOARD DIESEL ENGINE

Sample No: VPA057197

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA057197	---	---	---
Sample Date	17 Mar 2024	---	---	---
Machine Hours	132	---	---	---
Oil Hours	62	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

Jas Marine Service Inc

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FORT LAUDERDALE, FL
US 33315

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.0	---	---	---
Base Number (BN)	mg KOH/g	■ 9.9	---	---	---
Oxidation (PA)	%	■ 51	---	---	---

Diagnosis

We advise that you check the fuel injection system. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	■ 40	---	---	---
Sulfation (PA)	%	■ 49	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 4.7	---	---	---
Silicon	ppm	■ 11	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ 2	---	---	---

WEAR METALS

Iron	ppm	■ 6	---	---	---
Copper	ppm	■ 4	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 60	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	■ 0	---	---	---

ADDITIVES

Calcium	ppm	■ 1279	---	---	---
Magnesium	ppm	■ 818	---	---	---
Zinc	ppm	■ 1186	---	---	---
Phosphorus	ppm	■ 959	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 51	---	---	---

Depot: VP426065

Unique No: 10940387

Signed: Don Baldrige

Report Date: 26 Mar 2024

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GRAPHS

