

OIL ANALYSIS REPORT

VOLVO PENTA

STAHL BILL H. VOLVO PENTA 4012173217 - PORT GASOLINE ENGINE

Sample No: VPA059656

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA059656	---	---	---
Sample Date	02 Jan 2024	---	---	---
Machine Hours	698	---	---	---
Oil Hours	50	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

McDonnell Marine Service

63 Old Windsor Rd.

BLOOMFIELD, CT

US 06002-1404

Contact: Brian McDonnell

brmcdonnell@comcast.net

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F:

OIL CONDITION

Visc @ 100°C	cSt	16.51	---	---	---
Base Number (BN)	mg KOH/g	7.0	---	---	---
Oxidation (PA)	%	7	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. 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.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0	---	---	---
Nitration (PA)	%	6	---	---	---
Sulfation (PA)	%	7	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	9	---	---	---
Sodium	ppm	146	---	---	---
Potassium	ppm	7	---	---	---

WEAR METALS

Iron	ppm	74	---	---	---
Copper	ppm	13	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	9	---	---	---
Chromium	ppm	2	---	---	---
Molybdenum	ppm	43	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	1732	---	---	---
Magnesium	ppm	31	---	---	---
Zinc	ppm	798	---	---	---
Phosphorus	ppm	675	---	---	---
Barium	ppm	8	---	---	---
Boron	ppm	<1	---	---	---

Depot: VP153357

Unique No: 10819340

Signed: Jonathan Hester

Report Date: 11 Jan 2024

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GRAPHS

