

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA A933988 - DIESEL ENGINE

Sample No: VPA041419

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

SAMPLE INFORMATION

Sample Number	VPA041419	---	---	---
Sample Date	01 Aug 2023	---	---	---
Machine Hours	350	---	---	---
Oil Hours	50	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

Fordham Marine Services Inc
1336 University Blvd N
DO NOT USE, FL
US 32211-5226
Contact: Nelson Beau Fordham Jr
beaufordham@aol.com
T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	---	---	---
Base Number (BN)	mg KOH/g	█ 8.8	---	---	---
Oxidation (PA)	%	█ 61	---	---	---

CONTAMINATION

Soot %	%	█ 0.6	---	---	---
Nitration (PA)	%	█ 64	---	---	---
Sulfation (PA)	%	█ 56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 61	---	---	---
Potassium	ppm	█ 5	---	---	---

Diagnosis

We recommend an early resample to monitor this condition. Piston, ring and cylinder wear is indicated. High wear metal levels may reflect the reported noise. 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 suitable for further service.

WEAR METALS

Iron	ppm	▲ 134	---	---	---
Copper	ppm	█ 19	---	---	---
Lead	ppm	█ < 1	---	---	---
Tin	ppm	█ 7	---	---	---
Aluminum	ppm	● 96	---	---	---
Chromium	ppm	▲ 10	---	---	---
Molybdenum	ppm	█ 64	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ < 1	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 1205	---	---	---
Magnesium	ppm	█ 1038	---	---	---
Zinc	ppm	█ 1398	---	---	---
Phosphorus	ppm	█ 1130	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 4	---	---	---

Depot: VP152512
Unique No: 10587682
Signed: Doug Bogart
Report Date: 06 Aug 2023

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GRAPHS

