

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA A1014949 - PORT DIESEL ENGINE

Sample No: VPA047529

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA047529	---	---	---
Sample Date	04 Apr 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

Bay Marine Boatworks Inc.
310 West Cutting Blvd.
RICHMOND, CA
US 94804
Contact: David Vandervoort
max@baymarineboatworks.com
T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	---	---	---
Base Number (BN)	mg KOH/g	█ 9.2	---	---	---
Oxidation (PA)	%	47	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	47	---	---	---
Sulfation (PA)	%	48	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 2	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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.

WEAR METALS

Iron	ppm	█ 11	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	▲ 65	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 12	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1255	---	---	---
Magnesium	ppm	█ 750	---	---	---
Zinc	ppm	█ 840	---	---	---
Phosphorus	ppm	█ 760	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 69	---	---	---

Depot: VP601779
Unique No: 10968701
Signed: Angela Borella
Report Date: 12 Apr 2024

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GRAPHS

