

OIL ANALYSIS REPORT

**VOLVO
PENTA**

JAEWOOK CHUNG DANIEL/502462 VOLVO PENTA 2006041157 - CENTER DIESEL ENGINE

Sample No: VPA059359

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

SAMPLE INFORMATION

Sample Number	VPA059359	---	---	---
Sample Date	31 Oct 2023	---	---	---
Machine Hours	461	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

Endor Marine LLC - Coastal Marine - 152124
4300 11th Ave. NW
SEATTLE, WA
US 98107
Contact: WILLOW YANARELLA
service@coastalmarineengine.com
T: (206)784-3703
F: (206)784-8823

OIL CONDITION

Visc @ 100°C	cSt	█ 14.4	---	---	---
Base Number (BN)	mg KOH/g	█ 7.9	---	---	---
Oxidation (PA)	%	65	---	---	---

Diagnosis

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 suitable for further service.

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	51	---	---	---
Sulfation (PA)	%	55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 9	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 16	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1858	---	---	---
Magnesium	ppm	█ 234	---	---	---
Zinc	ppm	█ 1250	---	---	---
Phosphorus	ppm	█ 1002	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	172	---	---	---

Depot: VP794951
Unique No: 10726068
Signed: Don Baldrige
Report Date: 06 Nov 2023

OIL ANALYSIS REPORT

**VOLVO
PENTA**

GRAPHS

