

OIL ANALYSIS REPORT

VOLVO PENTA

ROBERT COUSLEY 505545 VOLVO PENTA 2013966549 - STARBOARD DIESEL ENGINE

Sample No: VPA048812

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

SAMPLE INFORMATION

Sample Number	VPA048812	VPA048171	VPA0361653	---
Sample Date	02 Oct 2023	17 Aug 2022	24 Aug 2021	---
Machine Hours	295	214	110	---
Oil Hours	77	0	110	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

Jefferson Beach Yacht Sales Inc

24400 Jefferson Ave.

SAINT CLAIR SHORES, MI

US 48080

Contact: DENNIS BUTT

dbutt@jbys.com

T: (866)490-5297

F:

OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	█ 12.8	█ 13.2	---
Base Number (BN)	mg KOH/g	█ 9.7	█ 10.6	---	---
Oxidation (PA)	%	55	55	37	---

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	█ 0.2	█ 0.1	---
Nitration (PA)	%	44	52	36	---
Sulfation (PA)	%	51	53	40	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 8	█ 13	█ 19	---
Sodium	ppm	█ 1	█ 1	█ 1	---
Potassium	ppm	█ 7	█ 7	█ 20	---

WEAR METALS

Iron	ppm	█ 6	█ 8	█ 8	---
Copper	ppm	█ 4	█ 36	█ 15	---
Lead	ppm	█ <1	█ <1	█ <1	---
Tin	ppm	█ <1	█ 1	█ 2	---
Aluminum	ppm	█ 3	█ 4	█ 6	---
Chromium	ppm	█ 0	█ <1	█ <1	---
Molybdenum	ppm	█ 57	█ 57	█ 48	---
Nickel	ppm	█ 0	█ 0	█ 0	---
Titanium	ppm	█ 0	█ 0	█ 0	---
Silver	ppm	█ 0	█ 0	█ <1	---
Manganese	ppm	█ <1	█ <1	█ 1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	█ 1057	█ 1050	█ 1037	---
Magnesium	ppm	█ 971	█ 916	█ 960	---
Zinc	ppm	█ 1273	█ 1236	█ 1278	---
Phosphorus	ppm	█ 1039	█ 1055	█ 1153	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 0	█ 2	█ 3	---

Depot: VP297371

Unique No: 10685861

Signed: Don Baldrige

Report Date: 11 Oct 2023

OIL ANALYSIS REPORT

**VOLVO
PENTA**

GRAPHS

