

OIL ANALYSIS REPORT

**VOLVO
PENTA**

RONALD SILVIA 505838 VOLVO PENTA 1012493058 - PORT DIESEL ENGINE

Sample No: VPA050685

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

SAMPLE INFORMATION

Sample Number	VPA050685	VPA041041	---	---
Sample Date	29 Nov 2023	16 Nov 2022	---	---
Machine Hours	2197	2034	---	---
Oil Hours	200	200	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

Jefferson Beach Yacht Sales Inc

24400 Jefferson Ave.
SAINT CLAIR SHORES, MI
US 48080

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F:

OIL CONDITION

Visc @ 100°C	cSt	13.1	13.2	---	---
Base Number (BN)	mg KOH/g	10.2	11.0	---	---
Oxidation (PA)	%	58	65	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	1	0.4	---	---
Nitration (PA)	%	58	59	---	---
Sulfation (PA)	%	56	59	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	2	3	---	---
Sodium	ppm	0	0	---	---
Potassium	ppm	0	2	---	---

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 acceptable for the time in service.

WEAR METALS

Iron	ppm	8	5	---	---
Copper	ppm	4	5	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	56	56	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1116	1247	---	---
Magnesium	ppm	948	835	---	---
Zinc	ppm	1263	1258	---	---
Phosphorus	ppm	1034	1070	---	---
Barium	ppm	0	0	---	---
Boron	ppm	6	21	---	---

Depot: VP297371

Unique No: 10780099

Signed: Don Baldrige

Report Date: 13 Dec 2023

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GRAPHS

