

OIL ANALYSIS REPORT

VOLVO PENTA

GREG MOERSCHEL 505734 ONAN D200758328 - PORT GENSET

Sample No: VPA050976

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

SAMPLE INFORMATION

Sample Number	VPA050976	VPA047569	VPA029950	---
Sample Date	20 Dec 2023	28 Nov 2022	31 Jan 2022	---
Machine Hours	282	194	141	---
Oil Hours	88	43	141	---
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: CORT CORINO

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F:

OIL CONDITION

Visc @ 100°C	cSt	13.0	13.1	13.4	---
Base Number (BN)	mg KOH/g	10.2	11.4	11.3	---
Oxidation (PA)	%	59	64	66	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	48	56	65	---
Sulfation (PA)	%	50	56	57	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	11	10	14	---
Sodium	ppm	3	2	7	---
Potassium	ppm	<1	<1	2	---

WEAR METALS

Iron	ppm	3	11	21	---
Copper	ppm	3	7	24	---
Lead	ppm	0	<1	2	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	1	2	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	59	52	41	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	22	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1114	1299	1832	---
Magnesium	ppm	938	759	525	---
Zinc	ppm	1277	1148	1006	---
Phosphorus	ppm	1118	918	930	---
Barium	ppm	<1	0	4	---
Boron	ppm	6	19	59	---

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.

Depot: VP297371

Unique No: 10804385

Signed: Jonathan Hester

Report Date: 27 Dec 2023

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GRAPHS

