

OIL ANALYSIS REPORT

VOLVO PENTA

MARTIN SCHULZ 505587 VOLVO PENTA A1165398 - STARBOARD DIESEL ENGINE

Sample No: VPA049826

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

SAMPLE INFORMATION

Sample Number	VPA049826	VPA041103	---	---
Sample Date	21 Sep 2023	08 Dec 2022	---	---
Machine Hours	239	188	---	---
Oil Hours	51	188	---	---
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	█ 13.8	█ 13.0	---	---
Base Number (BN)	mg KOH/g	█ 8.4	█ 11.8	---	---
Oxidation (PA)	%	56	84	---	---

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.

CONTAMINATION

Soot %	%	█ 0.2	█ 1	---	---
Nitration (PA)	%	54	65	---	---
Sulfation (PA)	%	51	69	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 7	█ 21	---	---
Sodium	ppm	█ 2	█ 2	---	---
Potassium	ppm	█ 3	█ 4	---	---

WEAR METALS

Iron	ppm	█ 8	█ 33	---	---
Copper	ppm	█ 5	█ 21	---	---
Lead	ppm	█ 2	█ 9	---	---
Tin	ppm	█ <1	█ 4	---	---
Aluminum	ppm	█ 5	█ 12	---	---
Chromium	ppm	█ <1	█ 3	---	---
Molybdenum	ppm	█ 66	█ 41	---	---
Nickel	ppm	█ <1	█ 2	---	---
Titanium	ppm	█ 0	█ <1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ 2	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	█ 1900	█ 1673	---	---
Magnesium	ppm	█ 174	█ 448	---	---
Zinc	ppm	█ 1157	█ 1069	---	---
Phosphorus	ppm	█ 1014	█ 888	---	---
Barium	ppm	█ 0	█ <1	---	---
Boron	ppm	118	█ 48	---	---

Depot: VP297371

Unique No: 10671642

Signed: Sean Felton

Report Date: 02 Oct 2023

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GRAPHS

