

OIL ANALYSIS REPORT

VOLVO PENTA

MARTIN SNYDER SEATTLE YACHTS VOLVO PENTA A1074912 - STARBOARD DIESEL ENGINE

Sample No: VPA059027

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

SAMPLE INFORMATION

Sample Number	VPA059027	---	---	---
Sample Date	10 Oct 2023	---	---	---
Machine Hours	180	---	---	---
Oil Hours	104	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 9.7	---	---	---
Oxidation (PA)	%	52	---	---	---

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 %	%	█ 0.3	---	---	---
Nitration (PA)	%	46	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 12	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 3	---	---	---

WEAR METALS

Iron	ppm	█ 18	---	---	---
Copper	ppm	█ 10	---	---	---
Lead	ppm	█ 5	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 60	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1079	---	---	---
Magnesium	ppm	█ 1010	---	---	---
Zinc	ppm	█ 1287	---	---	---
Phosphorus	ppm	█ 1072	---	---	---
Barium	ppm	█ 12	---	---	---
Boron	ppm	█ <1	---	---	---

Depot: VP794951
Unique No: 10695910
Signed: Angela Borella
Report Date: 17 Oct 2023

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GRAPHS

