

OIL ANALYSIS REPORT

**VOLVO
PENTA**

REEFS END SIDEBAR H2O VOLVO PENTA A796783 - STARBOARD DIESEL ENGINE

Sample No: VPA055687
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA055687	VPA025176	---	---
Sample Date	21 Feb 2024	08 Mar 2022	---	---
Machine Hours	643	516	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	13.4	13.52	---	---
Base Number (BN)	mg KOH/g	9.7	11.0	---	---
Oxidation (PA)	%	60	64	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.2	0.1	---	---
Nitration (PA)	%	56	59	---	---
Sulfation (PA)	%	53	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	15	5	---	---
Sodium	ppm	2	1	---	---
Potassium	ppm	1	0	---	---

WEAR METALS

Iron	ppm	15	10	---	---
Copper	ppm	10	8	---	---
Lead	ppm	2	2	---	---
Tin	ppm	<1	0	---	---
Aluminum	ppm	6	2	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	57	53	---	---
Nickel	ppm	2	2	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	1	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	1028	1039	---	---
Magnesium	ppm	952	972	---	---
Zinc	ppm	1326	1154	---	---
Phosphorus	ppm	1073	1009	---	---
Barium	ppm	4	0	---	---
Boron	ppm	0	2	---	---

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Diagnosis

No corrective action is recommended at this time. 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: VP288530
Unique No: 10903171
Signed: Doug Bogart
Report Date: 01 Mar 2024

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GRAPHS

