

OIL ANALYSIS REPORT

VOLVO PENTA

ANDREW VOLVO PENTA 383229 - STARBOARD DIESEL ENGINE

Sample No: VPA050698

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

SAMPLE INFORMATION

Sample Number	VPA050698	---	---	---
Sample Date	04 Jun 2023	---	---	---
Machine Hours	195	---	---	---
Oil Hours	195	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.3	---	---	---
Base Number (BN)	mg KOH/g	■ 8.7	---	---	---
Oxidation (PA)	%	49	---	---	---

CONTAMINATION

Soot %	%	■ 0.5	---	---	---
Nitration (PA)	%	55	---	---	---
Sulfation (PA)	%	49	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 1.5	---	---	---
Silicon	ppm	■ 36	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 4	---	---	---

WEAR METALS

Iron	ppm	■ 40	---	---	---
Copper	ppm	■ 69	---	---	---
Lead	ppm	■ 4	---	---	---
Tin	ppm	■ 3	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ 39	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ 3	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 1101	---	---	---
Magnesium	ppm	■ 1021	---	---	---
Zinc	ppm	■ 1255	---	---	---
Phosphorus	ppm	■ 1062	---	---	---
Barium	ppm	■ 5	---	---	---
Boron	ppm	■ <1	---	---	---

GRAND BANKS

450 SW SALEM RD

STUART, FL

US 34994

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F:

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a components first oil change. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VP531377

Unique No: 10533347

Signed: Don Baldrige

Report Date: 28 Jun 2023

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GRAPHS

