

OIL ANALYSIS REPORT

VOLVO PENTA

VA PILOTS DAREN G/15721 VOLVO PENTA 1013926395 - STARBOARD DIESEL ENGINE

Sample No: VPA046089

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

SAMPLE INFORMATION

Sample Number	VPA046089	---	---	---
Sample Date	10 Aug 2023	---	---	---
Machine Hours	6037	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

WESTERN BRANCH DIESEL

400 SENSATION WEIGH

BEAUFORT, NC

US 28516

Contact: DAVID SHOOK

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T:

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.8	---	---	---
Base Number (BN)	mg KOH/g	■ 8.5	---	---	---
Oxidation (PA)	%	■ 84	---	---	---

CONTAMINATION

Soot %	%	■ 0.3	---	---	---
Nitration (PA)	%	■ 70	---	---	---
Sulfation (PA)	%	■ 66	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	▲ 4.2	---	---	---
Silicon	ppm	■ 6	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 2	---	---	---

WEAR METALS

Iron	ppm	■ 17	---	---	---
Copper	ppm	■ <1	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 41	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	■ 0	---	---	---

ADDITIVES

Calcium	ppm	■ 1699	---	---	---
Magnesium	ppm	■ 525	---	---	---
Zinc	ppm	■ 922	---	---	---
Phosphorus	ppm	■ 746	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 33	---	---	---

Diagnosis

We advise that you check the fuel injection system. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VP141534

Unique No: 10601860

Signed: Jonathan Hester

Report Date: 14 Aug 2023

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GRAPHS

