

OIL ANALYSIS REPORT

VOLVO PENTA

NADINE URUIOLI STORY VOLVO PENTA 4012084509 - CENTER DIESEL ENGINE

Sample No: VPA051795

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA051795	---	---	---
Sample Date	10 Aug 2023	---	---	---
Machine Hours	287	---	---	---
Oil Hours	287	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ 8.9	---	---	---
Base Number (BN)	mg KOH/g	■ 8.0	---	---	---
Oxidation (PA)	%	41	---	---	---

CONTAMINATION

Soot %	%	■ 0	---	---	---
Nitration (PA)	%	57	---	---	---
Sulfation (PA)	%	42	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 4.0	---	---	---
Silicon	ppm	■ 14	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 2	---	---	---

WEAR METALS

Iron	ppm	■ 15	---	---	---
Copper	ppm	■ 1	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 52	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ 25	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	■ 1077	---	---	---
Magnesium	ppm	■ 765	---	---	---
Zinc	ppm	799	---	---	---
Phosphorus	ppm	655	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	176	---	---	---

Helmut's Marine Service

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SERVICE@HELMUTSMARINE.COM

T: x:

F: x:

Diagnosis

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

Depot: VP152741

Unique No: 10605766

Signed: Angela Borella

Report Date: 18 Aug 2023

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GRAPHS

