

OIL ANALYSIS REPORT

VOLVO PENTA

NADINE URCIUOLI HARVEY VOLVO PENTA 2013833449 - STARBOARD DIESEL ENGINE

Sample No: VPA045797

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

SAMPLE INFORMATION

Sample Number	VPA045797	---	---	---
Sample Date	21 Jun 2023	---	---	---
Machine Hours	1192	---	---	---
Oil Hours	1192	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	---	---	---
Base Number (BN)	mg KOH/g	█ 9.7	---	---	---
Oxidation (PA)	%	63	---	---	---

CONTAMINATION

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	61	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 5	---	---	---

WEAR METALS

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

ADDITIVES

Calcium	ppm	█ 1108	---	---	---
Magnesium	ppm	█ 1005	---	---	---
Zinc	ppm	█ 1321	---	---	---
Phosphorus	ppm	█ 1069	---	---	---
Barium	ppm	█ 1	---	---	---
Boron	ppm	█ 0	---	---	---

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SERVICE@HELMUTSMARINE.COM
T: x:
F: x:

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.

Depot: VP152741
Unique No: 10535814
Signed: Don Baldrige
Report Date: 30 Jun 2023

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GRAPHS

