

OIL ANALYSIS REPORT

VOLVO PENTA

D6-435 (S/N NOT GIVEN) - PORT DIESEL ENGINE

Sample No: VPA042533

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA042533	---	---	---
Sample Date	14 Sep 2023	---	---	---
Machine Hours	566	---	---	---
Oil Hours	165	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

BRIAN BELMONTI
1645 TRAILHEAD TER
HOLLYWOOD, FL
US 33021
Contact: BRIAN BELMONTI
brilrjet@yahoo.com
T: (906)553-1314
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 14.0	---	---	---
Base Number (BN)	mg KOH/g	█ 10.7	---	---	---
Oxidation (PA)	%	65	---	---	---

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 suitable for further service.

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	69	---	---	---
Sulfation (PA)	%	65	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 18	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 1	---	---	---

WEAR METALS

Iron	ppm	█ 85	---	---	---
Copper	ppm	█ 9	---	---	---
Lead	ppm	█ 5	---	---	---
Tin	ppm	█ 4	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 64	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 1177	---	---	---
Magnesium	ppm	972	---	---	---
Zinc	ppm	█ 1300	---	---	---
Phosphorus	ppm	█ 1055	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 5	---	---	---

Depot: VPBRIHOL
Unique No: 10656950
Signed: Jonathan Hester
Report Date: 21 Sep 2023

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GRAPHS

