

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA 701 1444659 - PORT DIESEL ENGINE

Sample No: VPA036315

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA036315	VPA027576	VPA033218	---
Sample Date	04 Oct 2023	16 May 2022	13 Sep 2021	---
Machine Hours	999	738	532	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	Not Changd	---
Sample Status	ATTENTION	NORMAL	NORMAL	---

SUNCOAST DIESEL MARINE

6341 PORTER ROAD, SUITE 6
SARASOTA, FL
US 34240
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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	■ 12.4	■ 12.6	---
Base Number (BN)	mg KOH/g	■ 9.5	■ 10.1	---	---
Oxidation (PA)	%	57	60	58	---

CONTAMINATION

Soot %	%	■ 0.3	■ 0.3	■ 0.5	---
Nitration (PA)	%	53	55	56	---
Sulfation (PA)	%	54	56	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	▲ 2.6	<1.0	<1.0	---
Silicon	ppm	■ 5	■ 5	■ 6	---
Sodium	ppm	■ 4	■ 1	■ 2	---
Potassium	ppm	■ 2	■ <1	■ <1	---

WEAR METALS

Iron	ppm	■ 7	■ 6	■ 10	---
Copper	ppm	■ 13	■ 17	■ 25	---
Lead	ppm	■ 0	■ <1	■ <1	---
Tin	ppm	■ <1	■ <1	■ 1	---
Aluminum	ppm	■ 1	■ <1	■ 0	---
Chromium	ppm	■ 4	■ <1	■ <1	---
Molybdenum	ppm	■ 64	■ 59	■ 56	---
Nickel	ppm	■ <1	■ 1	■ <1	---
Titanium	ppm	■ 0	■ 0	■ 0	---
Silver	ppm	■ 0	■ <1	■ <1	---
Manganese	ppm	■ 0	■ <1	■ <1	---
Vanadium	ppm	0	<1	0	---

ADDITIVES

Calcium	ppm	■ 1075	■ 1094	■ 1023	---
Magnesium	ppm	■ 1002	■ 968	■ 909	---
Zinc	ppm	■ 1304	■ 1277	■ 1123	---
Phosphorus	ppm	■ 1106	■ 1059	■ 991	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 10	■ 2	■ 3	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VP705283
Unique No: 10688771
Signed: Jonathan Hester
Report Date: 18 Oct 2023

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GRAPHS

