

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA 701 1449650 - PORT DIESEL ENGINE

Sample No: VPA044931

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA044931	VPA045134	VPA257721	---
Sample Date	27 Sep 2023	13 Jul 2022	09 Jun 2020	---
Machine Hours	0	449	115	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	Not Changd	---
Sample Status	ATTENTION	ATTENTION	ATTENTION	---

SUNCOAST DIESEL MARINE

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

Visc @ 100°C	cSt	▲ 11.8	▲ 11.4	▲ 10.3	---
Base Number (BN)	mg KOH/g	■ 9.6	■ 11.7	---	---
Oxidation (PA)	%	■ 57	65	59	---

CONTAMINATION

Soot %	%	■ 0.2	■ 0.6	■ 0.2	---
Nitration (PA)	%	■ 51	72	52	---
Sulfation (PA)	%	■ 53	58	52	---
Glycol	%	NEG	NEG	■ 0.0	---
Fuel	%	<1.0	<1.0	▲ 3.7	---
Silicon	ppm	■ 15	■ 7	■ 36	---
Sodium	ppm	■ 4	■ <1	■ 3	---
Potassium	ppm	■ 2	■ 0	■ 11	---

WEAR METALS

Iron	ppm	■ 21	■ 10	■ 14	---
Copper	ppm	■ 37	■ 37	■ 81	---
Lead	ppm	■ <1	■ 1	■ 5	---
Tin	ppm	■ <1	■ 1	■ 4	---
Aluminum	ppm	■ 2	■ 1	■ 3	---
Chromium	ppm	■ <1	■ 1	■ 4	---
Molybdenum	ppm	■ 129	■ 61	■ 10	---
Nickel	ppm	■ 0	■ 0	■ 1	---
Titanium	ppm	■ <1	■ 0	■ <1	---
Silver	ppm	■ 0	■ <1	■ <1	---
Manganese	ppm	■ 3	■ <1	■ 2	---
Vanadium	ppm	■ 0	■ 0	■ 0	---

ADDITIVES

Calcium	ppm	■ 1555	■ 1103	■ 2507	---
Magnesium	ppm	■ 718	■ 840	■ 24	---
Zinc	ppm	■ 844	■ 1219	■ 1131	---
Phosphorus	ppm	■ 697	■ 992	■ 1033	---
Barium	ppm	■ <1	■ 4	■ 1	---
Boron	ppm	■ 317	■ 0	■ 36	---

Diagnosis

No corrective action is recommended at this time. 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 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: 10670477
Signed: Don Baldrige
Report Date: 01 Oct 2023

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GRAPHS

