

OIL ANALYSIS REPORT

VOLVO PENTA

GALATI PO 105260 VOLVO PENTA A1062314 - STARBOARD DIESEL ENGINE

Sample No: VPA044449
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA044449	VPA040304	VPA026246	---
Sample Date	14 Aug 2023	11 Jul 2022	02 Jun 2021	---
Machine Hours	211	172	70	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	ATTENTION	NORMAL	---

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610 Mount Vernan St
OLDSMAR, FL
US 34677
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OIL CONDITION

Visc @ 100°C	cSt	13.5	13.5	13.9	---
Base Number (BN)	mg KOH/g	9.5	8.2	---	---
Oxidation (PA)	%	56	60	54	---

CONTAMINATION

Soot %	%	0.3	0.3	0.1	---
Nitration (PA)	%	49	73	41	---
Sulfation (PA)	%	52	55	54	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	12	19	10	---
Sodium	ppm	4	4	4	---
Potassium	ppm	4	7	2	---

WEAR METALS

Iron	ppm	▲ 102	▲ 120	24	---
Copper	ppm	14	22	4	---
Lead	ppm	1	4	<1	---
Tin	ppm	<1	2	<1	---
Aluminum	ppm	8	17	4	---
Chromium	ppm	8	9	2	---
Molybdenum	ppm	63	71	78	---
Nickel	ppm	2	2	<1	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	2	<1	---
Manganese	ppm	1	1	<1	---
Vanadium	ppm	<1	<1	0	---

ADDITIVES

Calcium	ppm	1163	1362	1312	---
Magnesium	ppm	961	843	755	---
Zinc	ppm	1253	1241	1096	---
Phosphorus	ppm	1039	994	951	---
Barium	ppm	0	0	0	---
Boron	ppm	4	24	54	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Cylinder, crank, or cam shaft wear is indicated. All other 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: VP945077
Unique No: 10609122
Signed: Doug Bogart
Report Date: 22 Aug 2023

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GRAPHS

