

OIL ANALYSIS REPORT

VOLVO PENTA

NOTORIOUS VOLVO PENTA A987962 - BOGIE/CENTER RIGHT DIESEL ENGINE

Sample No: VPA06032579
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA06032579	VPA049892	VPA019943	---
Sample Date	08 Dec 2023	02 Oct 2023	24 Sep 2019	---
Machine Hours	991	985	305	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

OIL CONDITION

Visc @ 100°C	cSt	13.8	14.1	14.0	---
Base Number (BN)	mg KOH/g	10.4	9.6	---	---
Oxidation (PA)	%	53	58	56	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.3	1.2	0.6	---
Nitration (PA)	%	43	69	53	---
Sulfation (PA)	%	51	57	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	5	5	---
Sodium	ppm	16	13	1	---
Potassium	ppm	4	5	0	---

WEAR METALS

Iron	ppm	9	26	14	---
Copper	ppm	3	10	6	---
Lead	ppm	<1	1	0	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	2	2	1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	69	61	57	---
Nickel	ppm	1	2	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	1176	1060	1081	---
Magnesium	ppm	1118	1028	797	---
Zinc	ppm	1413	1324	1066	---
Phosphorus	ppm	1160	1052	808	---
Barium	ppm	11	0	0	---
Boron	ppm	0	0	23	---

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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.

Depot: VP694356
Unique No: 10782370
Signed: Doug Bogart
Report Date: 14 Dec 2023

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GRAPHS

