

OIL ANALYSIS REPORT

VOLVO PENTA

CROSSMAN VOLVO PENTA A1093330 - STARBOARD DIESEL ENGINE

Sample No: VPA037307

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA037307	VPA049868	---	---
Sample Date	07 Jul 2024	09 Oct 2023	---	---
Machine Hours	365	329	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 12.83	█ 13.1	---	---
Base Number (BN)	mg KOH/g	█ 9.5	█ 9.7	---	---
Oxidation (PA)	%	53	57	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.2	---	---
Nitration (PA)	%	40	48	---	---
Sulfation (PA)	%	50	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 3	█ 5	---	---
Sodium	ppm	█ 2	█ 0	---	---
Potassium	ppm	█ 3	█ 3	---	---

WEAR METALS

Iron	ppm	█ 7	█ 11	---	---
Copper	ppm	█ 3	█ 5	---	---
Lead	ppm	█ 2	█ 3	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 2	█ 0	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 57	█ 47	---	---
Nickel	ppm	█ <1	█ 1	---	---
Titanium	ppm	█ 0	█ <1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1109	█ 1196	---	---
Magnesium	ppm	█ 895	█ 724	---	---
Zinc	ppm	█ 1302	█ 1152	---	---
Phosphorus	ppm	█ 1118	█ 967	---	---
Barium	ppm	█ 0	█ 1	---	---
Boron	ppm	█ 11	█ 25	---	---

Outstanding Marine

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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: VP153685
Unique No: 1114216
Signed: Doug Bogart
Report Date: 08 Jul 2024

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GRAPHS

