

OIL ANALYSIS REPORT

VOLVO PENTA

DIAMOND VOLVO PENTA A320486 - STARBOARD DIESEL ENGINE

Sample No: VPA045907
Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA045907	VPA043711	---	---
Sample Date	24 Oct 2023	02 Sep 2022	---	---
Machine Hours	553	459	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.7	█ 13.8	---	---
Base Number (BN)	mg KOH/g	█ 9.1	█ 10.8	---	---
Oxidation (PA)	%	58	38	---	---

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.

CONTAMINATION

Soot %	%	█ 0.1	█ 0.2	---	---
Nitration (PA)	%	46	40	---	---
Sulfation (PA)	%	52	42	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 3	---	---
Sodium	ppm	█ 2	█ 0	---	---
Potassium	ppm	█ 2	█ 0	---	---

WEAR METALS

Iron	ppm	█ 2	█ 8	---	---
Copper	ppm	█ <1	█ 2	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 1	█ <1	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 39	█ 38	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1494	█ 1109	---	---
Magnesium	ppm	█ 390	█ 904	---	---
Zinc	ppm	█ 1095	█ 1136	---	---
Phosphorus	ppm	█ 930	█ 921	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 84	█ 18	---	---

Depot: VP1134331
Unique No: 10714092
Signed: Don Baldrige
Report Date: 30 Oct 2023

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GRAPHS

