

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA 2006038570 - STARBOARD DIESEL ENGINE

Sample No: VPA056869

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA056869	VPA047290	---	---
Sample Date	29 Aug 2023	02 May 2022	---	---
Machine Hours	2088	2021	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

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POMPANO BEACH, FL
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OIL CONDITION

Visc @ 100°C	cSt	█ 14.8	█ 13.9	---	---
Base Number (BN)	mg KOH/g	█ 8.7	█ 10.0	---	---
Oxidation (PA)	%	57	61	---	---

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	█ 0.1	---	---
Nitration (PA)	%	50	46	---	---
Sulfation (PA)	%	50	56	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 12	█ 5	---	---
Sodium	ppm	█ 4	█ 16	---	---
Potassium	ppm	█ 3	█ <1	---	---

WEAR METALS

Iron	ppm	█ 13	█ 7	---	---
Copper	ppm	█ <1	█ 2	---	---
Lead	ppm	█ 0	█ 4	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 4	█ 1	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 44	█ 58	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1331	█ 1107	---	---
Magnesium	ppm	█ 787	█ 1027	---	---
Zinc	ppm	█ 1316	█ 1282	---	---
Phosphorus	ppm	█ 1047	█ 1118	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 33	█ 5	---	---

Depot: VPJOHDEE
Unique No: 10629122
Signed: Sean Felton
Report Date: 31 Aug 2023

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GRAPHS

