

OIL ANALYSIS REPORT

VOLVO PENTA

ROSENFELD VOLVO PENTA A 106307 - STARBOARD DIESEL ENGINE

Sample No: VPA042281
Oil Type: KENDALL 15W40

SAMPLE INFORMATION

Sample Number	VPA042281	VPA035239	---	---
Sample Date	03 Dec 2023	22 Nov 2021	---	---
Machine Hours	141	109	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	█ 14.1	---	---
Base Number (BN)	mg KOH/g	█ 7.7	---	---	---
Oxidation (PA)	%	39	58	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	48	42	---	---
Sulfation (PA)	%	43	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 4	█ 8	---	---
Sodium	ppm	█ <1	█ 4	---	---
Potassium	ppm	█ <1	█ 2	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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.

WEAR METALS

Iron	ppm	█ 10	█ 9	---	---
Copper	ppm	█ 1	█ 3	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ 2	█ 2	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 19	█ 48	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	█ 0	█ <1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 2195	█ 1720	---	---
Magnesium	ppm	█ 61	█ 404	---	---
Zinc	ppm	█ 1210	█ 1144	---	---
Phosphorus	ppm	█ 968	█ 1041	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 17	█ 126	---	---

Depot: VP930782
Unique No: 10767920
Signed: Sean Felton
Report Date: 05 Dec 2023

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GRAPHS

