

OIL ANALYSIS REPORT

**VOLVO
PENTA**

SERENITY 10072 1659 - CENTER DIESEL ENGINE

Sample No: VPA059825

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA059825	VPA044241	VPA032078	---
Sample Date	26 Oct 2023	07 Nov 2022	14 Jul 2021	---
Machine Hours	109	84	39	---
Oil Hours	25	45	1	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

OIL CONDITION

Visc @ 100°C	cSt	█ 14.3	█ 14.2	█ 14.5	---
Base Number (BN)	mg KOH/g	█ 8.1	█ 9.7	---	---
Oxidation (PA)	%	62	71	61	---

CONTAMINATION

Soot %	%	█ 0.1	█ 0.2	█ 0.1	---
Nitration (PA)	%	47	60	49	---
Sulfation (PA)	%	53	59	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 6	█ 10	█ 7	---
Sodium	ppm	█ 3	█ 4	█ <1	---
Potassium	ppm	█ 6	█ 2	█ 2	---

WEAR METALS

Iron	ppm	█ 3	█ 10	█ 4	---
Copper	ppm	█ 6	█ 16	█ 15	---
Lead	ppm	█ 0	█ <1	█ 5	---
Tin	ppm	█ 0	█ <1	█ <1	---
Aluminum	ppm	█ 2	█ 2	█ <1	---
Chromium	ppm	█ <1	█ <1	█ <1	---
Molybdenum	ppm	█ 2	█ 18	█ 59	---
Nickel	ppm	█ <1	█ 0	█ <1	---
Titanium	ppm	█ 0	█ 0	█ <1	---
Silver	ppm	█ <1	█ 0	█ <1	---
Manganese	ppm	█ <1	█ <1	█ <1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	█ 2107	█ 1985	█ 1211	---
Magnesium	ppm	80	█ 253	█ 896	---
Zinc	ppm	█ 1248	█ 1195	█ 1299	---
Phosphorus	ppm	█ 1026	█ 1005	█ 1062	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 171	█ 168	█ 27	---

The Talaria Company

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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 acceptable for the time in service.

Depot: VP592286

Unique No: 10722491

Signed: Sean Felton

Report Date: 01 Nov 2023

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GRAPHS

