

OIL ANALYSIS REPORT

VOLVO PENTA

IAN PORTER DANIEL/502243 VOLVO PENTA 2006035535 - PORT DIESEL ENGINE

Sample No: VPA059136

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA059136	VPA048330	VPA037122	---
Sample Date	01 Jan 2024	23 Mar 2022	20 Jan 2022	---
Machine Hours	1033	856	0	---
Oil Hours	0	0	40	---
Oil Changed	Changed	N/A	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.6	13.9	14.1	---
Base Number (BN)	mg KOH/g	9.4	11.6	11.1	---
Oxidation (PA)	%	64	59	77	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0	0.1	---
Nitration (PA)	%	59	48	51	---
Sulfation (PA)	%	55	55	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	3	7	---
Sodium	ppm	1	<1	2	---
Potassium	ppm	2	<1	<1	---

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.

WEAR METALS

Iron	ppm	6	2	2	---
Copper	ppm	5	<1	1	---
Lead	ppm	1	0	<1	---
Tin	ppm	<1	0	<1	---
Aluminum	ppm	1	0	3	---
Chromium	ppm	0	0	<1	---
Molybdenum	ppm	53	56	41	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	0	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1099	1153	1551	---
Magnesium	ppm	905	962	618	---
Zinc	ppm	1209	1245	994	---
Phosphorus	ppm	1029	1036	825	---
Barium	ppm	0	0	<1	---
Boron	ppm	16	10	48	---

Depot: VP794951
Unique No: 10836342
Signed: Angela Borella
Report Date: 22 Jan 2024

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GRAPHS

