

OIL ANALYSIS REPORT



DENNIS WOODS 7716868 VOLVO PENTA 2204156335 - PORT DIESEL ENGINE

Sample No: VPA036289
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA036289	VPA046317	VPA034177	---
Sample Date	13 Sep 2023	07 Feb 2023	18 Mar 2022	---
Machine Hours	2154	2114	2050	---
Oil Hours	0	60	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.5	14.5	15.6	---
Base Number (BN)	mg KOH/g	9.8	9.9	6.9	---
Oxidation (PA)	%	69	87	103	---

CONTAMINATION

Soot %	%	0.5	0.8	1.2	---
Nitration (PA)	%	73	95	125	---
Sulfation (PA)	%	56	65	72	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	17	17	8	---
Sodium	ppm	4	6	4	---
Potassium	ppm	2	2	3	---

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.

WEAR METALS

Iron	ppm	20	28	44	---
Copper	ppm	6	9	13	---
Lead	ppm	<1	<1	2	---
Tin	ppm	1	<1	1	---
Aluminum	ppm	2	3	4	---
Chromium	ppm	<1	1	2	---
Molybdenum	ppm	70	65	12	---
Nickel	ppm	1	2	3	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1233	1220	1736	---
Magnesium	ppm	1096	1014	952	---
Zinc	ppm	1406	1285	934	---
Phosphorus	ppm	1144	1033	854	---
Barium	ppm	0	<1	0	---
Boron	ppm	11	14	72	---

Depot: VP99031103
Unique No: 10662240
Signed: Don Baldrige
Report Date: 27 Sep 2023

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GRAPHS

