

OIL ANALYSIS REPORT



SCOTT GLAZEBOOK 7717402 VOLVO PENTA 2004010996 - CENTER DIESEL ENGINE

Sample No: VPA055155
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA055155	VPA046260	VPA025544	---
Sample Date	19 Oct 2023	14 Feb 2023	13 Nov 2020	---
Machine Hours	0	2374	2322	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ATTENTION	---

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.1	13.3	---
Base Number (BN)	mg KOH/g	9.8	7.8	---	---
Oxidation (PA)	%	54	66	62	---

CONTAMINATION

Soot %	%	0.1	0.6	0.1	---
Nitration (PA)	%	43	83	53	---
Sulfation (PA)	%	49	55	57	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	7	2	---
Sodium	ppm	2	2	2	---
Potassium	ppm	1	0	<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 acceptable for the time in service.

WEAR METALS

Iron	ppm	1	5	12	---
Copper	ppm	4	6	5	---
Lead	ppm	0	2	1	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	3	4	2	---
Chromium	ppm	<1	<1	1	---
Molybdenum	ppm	58	62	62	---
Nickel	ppm	1	2	▲ 4	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1039	1066	1125	---
Magnesium	ppm	1002	955	910	---
Zinc	ppm	1329	1250	1300	---
Phosphorus	ppm	1062	1031	1063	---
Barium	ppm	0	0	0	---
Boron	ppm	<1	3	30	---

Depot: VP99031103
Unique No: 10722504
Signed: Sean Felton
Report Date: 01 Nov 2023

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**VOLVO
PENTA**

GRAPHS

