

OIL ANALYSIS REPORT



BOB FARRIS 505661 VOLVO PENTA A329319 - PORT DIESEL ENGINE

Sample No: VPA059433
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA059433	VPA042746	---	---
Sample Date	01 Dec 2023	13 Dec 2022	---	---
Machine Hours	545	508	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	13.8	13.4	---	---
Base Number (BN)	mg KOH/g	9.8	11.2	---	---
Oxidation (PA)	%	53	60	---	---

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.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.2	0.3	---	---
Nitration (PA)	%	43	53	---	---
Sulfation (PA)	%	49	56	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	3	3	---	---
Sodium	ppm	0	0	---	---
Potassium	ppm	1	1	---	---

WEAR METALS

Iron	ppm	10	13	---	---
Copper	ppm	3	4	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	1	1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	57	57	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	1	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1007	1032	---	---
Magnesium	ppm	882	872	---	---
Zinc	ppm	1126	1152	---	---
Phosphorus	ppm	908	977	---	---
Barium	ppm	2	0	---	---
Boron	ppm	4	2	---	---

Depot: VP297371
Unique No: 10775994
Signed: Don Baldrige
Report Date: 07 Dec 2023

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VOLVO PENTA

GRAPHS

