

OIL ANALYSIS REPORT



VOLVO PENTA 10132223778 - 4 MAIN ENGINE

Sample No: VPA051619
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA051619	VPA057200	---	---
Sample Date	10 May 2024	06 Apr 2024	---	---
Machine Hours	829	438	---	---
Oil Hours	829	438	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

WINDSERVE MARINE
 10 MACNAUGHT ST
 NORTH KINGSTOWN, RI
 US 02852
 Contact: Ryan Linn
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 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	12.8	12.3	---	---
Base Number (BN)	mg KOH/g	9.4	8.4	---	---
Oxidation (PA)	%	59	78	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.2	0.2	---	---
Nitration (PA)	%	51	58	---	---
Sulfation (PA)	%	52	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	9	33	---	---
Sodium	ppm	1	3	---	---
Potassium	ppm	4	8	---	---

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	7	12	---	---
Copper	ppm	2	7	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	2	3	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	58	51	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	1153	1757	---	---
Magnesium	ppm	856	339	---	---
Zinc	ppm	1222	1030	---	---
Phosphorus	ppm	1033	895	---	---
Barium	ppm	0	0	---	---
Boron	ppm	9	50	---	---

Depot: VPSENNOR
Unique No: 11043977
Signed: Sean Felton
Report Date: 23 May 2024

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VOLVO PENTA

GRAPHS

