

OIL ANALYSIS REPORT

VOLVO PENTA

WARREN LUETH 1172 VOLVO PENTA 7008533280 - PORT DIESEL ENGINE

Sample No: VPA056534

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

SAMPLE INFORMATION

Sample Number	VPA056534	---	---	---
Sample Date	28 Nov 2023	---	---	---
Machine Hours	161	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

BELLINGHAM YACHT SALES (OUILEETE BROS)

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BELLINGHAM, WA
US 98225
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	---	---	---
Base Number (BN)	mg KOH/g	█ 8.7	---	---	---
Oxidation (PA)	%	50	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	58	---	---	---
Sulfation (PA)	%	49	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 14	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 3	---	---	---

WEAR METALS

Iron	ppm	█ 9	---	---	---
Copper	ppm	█ 44	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	11	---	---	---
Nickel	ppm	█ 5	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1338	---	---	---
Magnesium	ppm	█ 657	---	---	---
Zinc	ppm	█ 854	---	---	---
Phosphorus	ppm	█ 722	---	---	---
Barium	ppm	█ 11	---	---	---
Boron	ppm	█ 101	---	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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.

Depot: VP255663
Unique No: 10782812
Signed: Sean Felton
Report Date: 15 Dec 2023

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GRAPHS

