

OIL ANALYSIS REPORT

VOLVO PENTA

501540 VOLVO PENTA 3998090 - PORT DIESEL ENGINE

Sample No: VPA051934

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA051934	---	---	---
Sample Date	15 Aug 2023	---	---	---
Machine Hours	2055	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

North Harbor Diesel Inc

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	---	---	---
Base Number (BN)	mg KOH/g	█ 9.0	---	---	---
Oxidation (PA)	%	56	---	---	---

CONTAMINATION

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	60	---	---	---
Sulfation (PA)	%	54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 21	---	---	---
Copper	ppm	█ 12	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 100	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1403	---	---	---
Magnesium	ppm	█ 769	---	---	---
Zinc	ppm	█ 977	---	---	---
Phosphorus	ppm	█ 824	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 257	---	---	---

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.

Depot: VP179089
Unique No: 10618334
Signed: Sean Felton
Report Date: 25 Aug 2023

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GRAPHS

