

OIL ANALYSIS REPORT

VOLVO PENTA

CRUM ROGER VOLVO PENTA 2004009180 - PORT DIESEL ENGINE

Sample No: VPA038724

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA038724	---	---	---
Sample Date	06 Jul 2022	---	---	---
Machine Hours	862	---	---	---
Oil Hours	862	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.2	---	---	---
Base Number (BN)	mg KOH/g	29.8	---	---	---
Oxidation (PA)	%	116	---	---	---

CONTAMINATION

Water	%	8.00	---	---	---
Soot %	%	0.4	---	---	---
Nitration (PA)	%	259	---	---	---
Sulfation (PA)	%	0	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	6	---	---	---
Sodium	ppm	503	---	---	---
Potassium	ppm	26	---	---	---

Diagnosis

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. The high sodium (Na) level indicates the possible presence of salt water. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

WEAR METALS

Iron	ppm	45	---	---	---
Copper	ppm	8	---	---	---
Lead	ppm	19	---	---	---
Tin	ppm	4	---	---	---
Aluminum	ppm	13	---	---	---
Chromium	ppm	1	---	---	---
Molybdenum	ppm	55	---	---	---
Nickel	ppm	3	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	2	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	1351	---	---	---
Magnesium	ppm	708	---	---	---
Zinc	ppm	813	---	---	---
Phosphorus	ppm	691	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	243	---	---	---

Depot: VP153319
Unique No: 10050423
Signed: Jonathan Hester
Report Date: 15 Jul 2022

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GRAPHS

