

OIL ANALYSIS REPORT

VOLVO PENTA

LUECK VOLVO PENTA A1089756 - PORT DIESEL ENGINE

Sample No: VPA036804
Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA036804	---	---	---
Sample Date	30 Jul 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	MARGINAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.48	---	---	---
Base Number (BN)	mg KOH/g	█ 10.9	---	---	---
Oxidation (PA)	%	58	---	---	---

CONTAMINATION

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	44	---	---	---
Sulfation (PA)	%	54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 28	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ 3	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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.

WEAR METALS

Iron	ppm	█ 25	---	---	---
Copper	ppm	█ 19	---	---	---
Lead	ppm	█ 5	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 10	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 44	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 3178	---	---	---
Magnesium	ppm	█ 103	---	---	---
Zinc	ppm	█ 1150	---	---	---
Phosphorus	ppm	█ 982	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 392	---	---	---

Depot: VP867279
Unique No: 10578396
Signed: Doug Bogart
Report Date: 31 Jul 2023

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GRAPHS

