

OIL ANALYSIS REPORT

VOLVO PENTA

GREG ELLIS VOLVO PENTA A1192192 - STARBOARD DIESEL ENGINE

Sample No: VPA057471

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA057471	---	---	---
Sample Date	02 May 2024	---	---	---
Machine Hours	93	---	---	---
Oil Hours	93	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.0	---	---	---
Base Number (BN)	mg KOH/g	█ 7.1	---	---	---
Oxidation (PA)	%	41	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	41	---	---	---
Sulfation (PA)	%	45	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 19	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 4	---	---	---

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.

WEAR METALS

Iron	ppm	█ 21	---	---	---
Copper	ppm	█ 23	---	---	---
Lead	ppm	█ 6	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 19	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 108	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1397	---	---	---
Magnesium	ppm	570	---	---	---
Zinc	ppm	881	---	---	---
Phosphorus	ppm	█ 760	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	301	---	---	---

Depot: VP648685

Unique No: 11015830

Signed: Don Baldrige

Report Date: 08 May 2024

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GRAPHS

