

OIL ANALYSIS REPORT



JOHN CUSHMAN VOLVO PENTA 2004003061 - PORT DIESEL ENGINE

Sample No: VPA036694
Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA036694	---	---	---
Sample Date	06 Mar 2024	---	---	---
Machine Hours	443	---	---	---
Oil Hours	443	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ATTENTION	---	---	---

Larry's Lighthouse Marina
1250
AQUEBOGUE, NY
US 11931
Contact: MAX FUHLBRUGGE
info@lighthousemarina.com
T: x:
F: x:

OIL CONDITION

Visc @ 100°C	cSt	█ 14.2	---	---	---
Base Number (BN)	mg KOH/g	█ 8.9	---	---	---
Oxidation (PA)	%	67	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	55	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 6	---	---	---

WEAR METALS

Iron	ppm	█ 36	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	● 76	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	23	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1762	---	---	---
Magnesium	ppm	█ 320	---	---	---
Zinc	ppm	█ 1174	---	---	---
Phosphorus	ppm	█ 1067	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 140	---	---	---

Depot: VP610438
Unique No: 10916081
Signed: Don Baldrige
Report Date: 11 Mar 2024

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GRAPHS

