

OIL ANALYSIS REPORT

VOLVO PENTA

JAMES E CARLSON VOLVO PENTA A1054031 - STARBOARD DIESEL ENGINE

Sample No: VPA044720
Oil Type: SHELL ROTELLA T4 15W40

SAMPLE INFORMATION

Sample Number	VPA044720	---	---	---
Sample Date	25 Oct 2022	---	---	---
Machine Hours	207	---	---	---
Oil Hours	75	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

Point Judith Marina
360 Gooseberry Road
WAKEFIELD, RI
US 02879
Contact: MATT ST. ANGELO
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T: (401)789-7189
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OIL CONDITION

Visc @ 100°C	cSt	█ 14.4	---	---	---
Base Number (BN)	mg KOH/g	█ 8.1	---	---	---
Oxidation (PA)	%	68	---	---	---

CONTAMINATION

Soot %	%	█ 0.6	---	---	---
Nitration (PA)	%	73	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 19	---	---	---
Sodium	ppm	█ 8	---	---	---
Potassium	ppm	█ 13	---	---	---

WEAR METALS

Iron	ppm	▲ 93	---	---	---
Copper	ppm	█ 20	---	---	---
Lead	ppm	█ 4	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 19	---	---	---
Chromium	ppm	█ 6	---	---	---
Molybdenum	ppm	█ 15	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 2070	---	---	---
Magnesium	ppm	█ 164	---	---	---
Zinc	ppm	█ 1184	---	---	---
Phosphorus	ppm	█ 1026	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 142	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Cylinder, crank, or cam shaft wear is indicated. All other 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: VP153811
Unique No: 10700624
Signed: Don Baldrige
Report Date: 20 Oct 2023

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GRAPHS

