

OIL ANALYSIS REPORT

VOLVO PENTA

WILSON 590-75 JC CUMMINS 22430229 - STARBOARD DIESEL ENGINE

Sample No: VPA021831

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA021831	---	---	---
Sample Date	18 Dec 2023	---	---	---
Machine Hours	111	---	---	---
Oil Hours	40	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

Outstanding Marine

PO Box 274
GALENA, MD
US 21635
Contact: Ronda Bolinger
rlwb@verizon.net
T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	---	---	---
Base Number (BN)	mg KOH/g	█ 8.4	---	---	---
Oxidation (PA)	%	64	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.5	---	---	---
Nitration (PA)	%	56	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 2	---	---	---

Diagnosis

Resample at the next service interval to monitor. 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 suitable for further service.

WEAR METALS

Iron	ppm	█ 13	---	---	---
Copper	ppm	█ 29	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 8	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 2097	---	---	---
Magnesium	ppm	█ 13	---	---	---
Zinc	ppm	█ 1130	---	---	---
Phosphorus	ppm	█ 956	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 172	---	---	---

Depot: VP153685
Unique No: 10816316
Signed: Sean Felton
Report Date: 04 Jan 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

