

OIL ANALYSIS REPORT

**VOLVO
PENTA**

JAMES TALBOTT JT KOHLER 794346 - GENSET

Sample No: VPA045855

Oil Type: SHELL ROTELLA T4 15W40

SAMPLE INFORMATION

Sample Number	VPA045855	VPA037297	---	---
Sample Date	17 Nov 2023	07 Jan 2023	---	---
Machine Hours	1327	1269	---	---
Oil Hours	0	93	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

Outstanding Marine

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

OIL CONDITION

Visc @ 100°C	cSt	14.4	14.5	---	---
Base Number (BN)	mg KOH/g	7.7	8.3	---	---
Oxidation (PA)	%	67	66	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	58	54	---	---
Sulfation (PA)	%	55	55	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	5	5	---	---
Sodium	ppm	2	0	---	---
Potassium	ppm	4	8	---	---

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	4	4	---	---
Copper	ppm	<1	<1	---	---
Lead	ppm	0	1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	<1	1	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	<1	<1	---	---

ADDITIVES

Calcium	ppm	2163	2242	---	---
Magnesium	ppm	37	19	---	---
Zinc	ppm	1157	1252	---	---
Phosphorus	ppm	959	946	---	---
Barium	ppm	0	0	---	---
Boron	ppm	175	178	---	---

Depot: VP153685
Unique No: 10765801
Signed: Don Baldrige
Report Date: 03 Dec 2023

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GRAPHS

