

OIL ANALYSIS REPORT

**VOLVO
PENTA**

GROFF JC ONAN I150873995 - GENSET

Sample No: VPA021982

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA021982	VPA037812	---	---
Sample Date	14 Dec 2023	21 Jun 2022	---	---
Machine Hours	606	502	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
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	12.8	13.6	---	---
Base Number (BN)	mg KOH/g	9.6	10.4	---	---
Oxidation (PA)	%	55	59	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	42	43	---	---
Sulfation (PA)	%	51	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	5	5	---	---
Sodium	ppm	<1	1	---	---
Potassium	ppm	0	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	2	2	---	---
Copper	ppm	<1	<1	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	54	45	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	1075	1273	---	---
Magnesium	ppm	897	740	---	---
Zinc	ppm	1193	1221	---	---
Phosphorus	ppm	993	960	---	---
Barium	ppm	0	0	---	---
Boron	ppm	12	43	---	---

Depot: VP153685
Unique No: 10816287
Signed: Sean Felton
Report Date: 04 Jan 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

