

OIL ANALYSIS REPORT

VOLVO PENTA

NADINE URUIOLI 2300558-MYC CUMMINS/ONAN G100134873 - STARBOARD GENSET

Sample No: VPA058280

Oil Type: VOLVO AUTOMATIC TRANSMISSION FLUID AT102

SAMPLE INFORMATION

Sample Number	VPA058280	---	---	---
Sample Date	13 Nov 2023	---	---	---
Machine Hours	109	---	---	---
Oil Hours	109	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	■ 24.8	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 5	---	---	---
Potassium	ppm	■ 3	---	---	---

WEAR METALS

Iron	ppm	■ 29	---	---	---
Copper	ppm	▲ 67	---	---	---
Lead	ppm	▲ 109	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ <1	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 290	---	---	---
Magnesium	ppm	26	---	---	---
Zinc	ppm	■ 62	---	---	---
Phosphorus	ppm	■ 244	---	---	---
Barium	ppm	■ 2	---	---	---
Boron	ppm	■ 77	---	---	---

Helmuts Marine Service

619 Canal Street
SAN RAFAEL, CA
US 94901-3545
Contact: NADINE URUIOLI
SERVICE@HELMUTSMARINE.COM

T: x:

F: x:

Diagnosis

Resample at the next service interval to monitor. Please confirm the component type, make and model with your next sample. Clutch and/or bushing/bearing wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VP152741

Unique No: 10755885

Signed: Doug Bogart

Report Date: 28 Nov 2023

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GRAPHS

