

OIL ANALYSIS REPORT

VOLVO PENTA

ZF 20009765 - INBOARD - STARBOARD GEARBOX

Sample No: VPA060897

Oil Type: SAE 40W

SAMPLE INFORMATION

Sample Number	VPA060897	---	---	---
Sample Date	05 Mar 2024	---	---	---
Machine Hours	1426	---	---	---
Oil Hours	84	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

CAROLINA MARINE DIESEL

PO BOX 24159
HILTON HEAD, SC
US 29925

Contact: KEVIN JACKSON
cmdieselsc@gmail.com

T: (843)830-9202
F: (843)681-9976

OIL CONDITION

Visc @ 40°C	cSt	■ 85.1	---	---	---
-------------	-----	--------	-----	-----	-----

CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 3	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 0	---	---	---

WEAR METALS

PQ		■ 17	---	---	---
Iron	ppm	■ 14	---	---	---
Copper	ppm	■ 30	---	---	---
Lead	ppm	▲ 58	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	▲ 32	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 82	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	2134	---	---	---
Magnesium	ppm	■ 176	---	---	---
Zinc	ppm	1020	---	---	---
Phosphorus	ppm	952	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	23	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. The copper level is abnormal. The condition of the oil is acceptable for the time in service.

Depot: CARHILSC
Unique No: 10913962
Signed: Jonathan Hester
Report Date: 11 Mar 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

