

OIL ANALYSIS REPORT

VOLVO PENTA

ZF 20080557 - INBOARD - STARBOARD GEARBOX

Sample No: VPA054699

Oil Type: SAE 40W

SAMPLE INFORMATION

Sample Number	VPA054699	---	---	---
Sample Date	07 Jun 2024	---	---	---
Machine Hours	2446	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

CAROLINA MARINE DIESEL

PO BOX 24159
HILTON HEAD, SC
US 29925

Contact: KEVIN JACKSON
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OIL CONDITION

Visc @ 40°C	cSt	■ 82.3	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 256	---	---	---
Potassium	ppm	■ 3	---	---	---

WEAR METALS

PQ		■ 27	---	---	---
Iron	ppm	■ 52	---	---	---
Copper	ppm	▲ 381	---	---	---
Lead	ppm	■ 6	---	---	---
Tin	ppm	■ 5	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 12	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	■ 1897	---	---	---
Magnesium	ppm	■ 114	---	---	---
Zinc	ppm	■ 883	---	---	---
Phosphorus	ppm	■ 779	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 126	---	---	---

Diagnosis

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. The copper level is abnormal. Clutch disc wear or oil cooler leaching indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: CARHILSC

Unique No: 11072473

Signed: Jonathan Hester

Report Date: 13 Jun 2024

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GRAPHS

