

OIL ANALYSIS REPORT

VOLVO PENTA

CHRISTIAN LIRIANO CHUCK MERCUISER OW334570 - STARBOARD DIESEL ENGINE

Sample No: VPA044356

Oil Type: MERCYRY MARINE 25W40 SYNTH

SAMPLE INFORMATION

Sample Number	VPA044356	---	---	---
Sample Date	06 Dec 2023	---	---	---
Machine Hours	350	---	---	---
Oil Hours	10	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

LIBERTY LANDING MARINE

80 AUDREY ZAPP DR

JERSEY CITY, NJ

US 07305

Contact: JOHN PURINTON

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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 16.7	---	---	---
Base Number (BN)	mg KOH/g	█ 10.1	---	---	---
Oxidation (PA)	%	█ 37	---	---	---

CONTAMINATION

Water	%	◆ 1.75	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	█ 76	---	---	---
Sulfation (PA)	%	█ 23	---	---	---
Glycol	%	◆ 0.10	---	---	---
Fuel	%	█ 0.9	---	---	---
Silicon	ppm	█ 9	---	---	---
Sodium	ppm	▲ 1453	---	---	---
Potassium	ppm	▲ 60	---	---	---

WEAR METALS

Iron	ppm	█ 47	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 41	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 2049	---	---	---
Magnesium	ppm	█ 210	---	---	---
Zinc	ppm	█ 812	---	---	---
Phosphorus	ppm	█ 677	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 191	---	---	---

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is positive. Fuel content negligible. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP454834

Unique No: 10805121

Signed: Jonathan Hester

Report Date: 29 Dec 2023

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GRAPHS

