

OIL ANALYSIS REPORT

**VOLVO
PENTA**

LOCKHER H15388 MERCEDES-BENZ MERC ZUES - LOCKHER (S/N NOT GIVEN) - STARBOARD IPS

Sample No: VPA036440

Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number	VPA036440	---	---	---
Sample Date	01 Nov 2023	---	---	---
Machine Hours	1741	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

Walstrom Marine - 767948

501 Bay Street
HARBOR SPRINGS, MI
US 49740

Contact: RICK HEINY
rheiny@walstrom.com

T:
F:

OIL CONDITION

Visc @ 40°C	cSt	■ 37.1	---	---	---
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CONTAMINATION

Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 2	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

PQ		■ 27	---	---	---
Iron	ppm	■ 24	---	---	---
Copper	ppm	▲ 372	---	---	---
Lead	ppm	■ 8	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	<1	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 43	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 0	---	---	---
Vanadium	ppm	■ 0	---	---	---

ADDITIVES

Calcium	ppm	■ 2027	---	---	---
Magnesium	ppm	■ 8	---	---	---
Zinc	ppm	■ 699	---	---	---
Phosphorus	ppm	■ 641	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 223	---	---	---

Depot: VP154879
Unique No: 10727724
Signed: Doug Bogart
Report Date: 07 Nov 2023

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GRAPHS

