

OIL ANALYSIS REPORT

VOLVO PENTA

MARK AND SUE RINGHAM MSR ZF 20381928 - INBOARD - STARBOARD GEARBOX

Sample No: VPA059440

Oil Type: SAE 30W

SAMPLE INFORMATION

Sample Number	VPA059440	---	---	---
Sample Date	15 Nov 2023	---	---	---
Machine Hours	715	---	---	---
Oil Hours	665	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	■ 88.9	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 3	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 1	---	---	---

WEAR METALS

PQ		■ 13	---	---	---
Iron	ppm	■ 6	---	---	---
Copper	ppm	■ 57	---	---	---
Lead	ppm	■ 4	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 107	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 2512	---	---	---
Magnesium	ppm	■ 18	---	---	---
Zinc	ppm	■ 1180	---	---	---
Phosphorus	ppm	■ 1050	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 5	---	---	---

ALL SYSTEMS MARINE

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Diagnosis

Resample at the next service interval to monitor. All 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.

Depot: VP99220003
Unique No: 10763664
Signed: Don Baldrige
Report Date: 30 Nov 2023

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GRAPHS

