

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**MIKE OWEN 6230 ZF HRM301A2 94-13787 - INBOARD - STARBOARD GEARBOX**

**Sample No:** VPA045842

**Oil Type:** NOT GIVEN

## SAMPLE INFORMATION

Sample Number	VPA045842	---	---	---
Sample Date	08 Aug 2023	---	---	---
Machine Hours	2889	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

**Northwest Diesel Power**  
1325 ROEDER AVE SUITE 103  
BELLINGHAM, WA  
US 98225  
Contact: BRANDON ROBERTSON  
parts@nwdieselpower.com  
T:  
F:

## OIL CONDITION

Visc @ 40°C	cSt	■ 88.1	---	---	---
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## CONTAMINATION

Silicon	ppm	■ 11	---	---	---
Sodium	ppm	■ 23	---	---	---
Potassium	ppm	■ <1	---	---	---

## 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.

## WEAR METALS

PQ		■ 13	---	---	---
Iron	ppm	■ 16	---	---	---
Copper	ppm	■ 41	---	---	---
Lead	ppm	■ 166	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 52	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---

## ADDITIVES

Calcium	ppm	3443	---	---	---
Magnesium	ppm	41	---	---	---
Zinc	ppm	1185	---	---	---
Phosphorus	ppm	1041	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	453	---	---	---

**Depot:** VP759009  
**Unique No:** 10601762  
**Signed:** Don Baldrige  
**Report Date:** 12 Aug 2023

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## GRAPHS

