

# OIL ANALYSIS REPORT

# VOLVO PENTA

## CUMMINS 20410437 - INBOARD - PORT GEARBOX

**Sample No:** VPA057417  
**Oil Type:** GEAR OIL LS 80W90

### SAMPLE INFORMATION

Sample Number	VPA057417	VPA057382	VPA057414	---
Sample Date	16 Mar 2024	16 Mar 2024	15 Mar 2024	---
Machine Hours	0	0	0	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	N/A	---
Sample Status	ABNORMAL	SEVERE	ABNORMAL	---

### Sun Power Diesel & Marine

833 NE 3Rd Ave  
DANIA BEACH, FL  
US 33004  
Contact: SCOTT  
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T: (954)237-2200  
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### OIL CONDITION

Visc @ 40°C	cSt	█ 164	█ 41.3	█ 34.8	---
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### CONTAMINATION

Water	%	▲ 0.473	NEG	NEG	---
Silicon	ppm	█ 3	█ 4	█ 8	---
Sodium	ppm	█ 40	█ 1	█ 2	---
Potassium	ppm	█ 4	█ 5	█ 6	---

### WEAR METALS

PQ		█ 21	█ 18	█ 101	---
Iron	ppm	● 231	█ 27	▲ 233	---
Copper	ppm	█ 10	▲ 464	▲ 240	---
Lead	ppm	█ 1	█ <1	█ 0	---
Tin	ppm	█ <1	█ 3	█ 2	---
Aluminum	ppm	█ 2	█ 2	█ 6	---
Chromium	ppm	█ 1	█ <1	█ 3	---
Molybdenum	ppm	42	49	51	---
Nickel	ppm	█ 2	█ <1	█ <1	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	█ 1	<1	3	---
Vanadium	ppm	0	0	0	---

### ADDITIVES

Calcium	ppm	█ 246	2414	2407	---
Magnesium	ppm	█ 7	11	11	---
Zinc	ppm	█ 35	806	798	---
Phosphorus	ppm	276	699	705	---
Barium	ppm	110	0	<1	---
Boron	ppm	8	222	215	---

### Diagnosis

We advise that you check for the source of water entry. Resample at the next service interval to monitor. Gear wear is indicated. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VP154386  
**Unique No:** 10936878  
**Signed:** Jonathan Hester  
**Report Date:** 21 Mar 2024

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## GRAPHS

