

OIL ANALYSIS REPORT

VOLVO PENTA

CAPTAINS MARINA ZF GEAR 20405 131 - INBOARD - STARBOARD GEARBOX

Sample No: VPA029632
Oil Type: MOBIL 15W40

SAMPLE INFORMATION

Sample Number	VPA029632	---	---	---
Sample Date	03 Jun 2024	---	---	---
Machine Hours	100	---	---	---
Oil Hours	100	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

Johnson & Towers, Inc
2021 Briggs Road
MT.LAUREL, NJ
US 08054
Contact: BRENT BUZBY
BBUZBY@JOHNSONTOWERS.COM
T:
F:

OIL CONDITION

Visc @ 40°C	cSt	■ 193	---	---	---
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CONTAMINATION

Water	%	▲ 0.452	---	---	---
Silicon	ppm	■ 6	---	---	---
Sodium	ppm	■ 5	---	---	---
Potassium	ppm	■ 1	---	---	---

WEAR METALS

PQ		■ 31	---	---	---
Iron	ppm	■ 21	---	---	---
Copper	ppm	▲ 106	---	---	---
Lead	ppm	■ 4	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 2	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 67	---	---	---
Magnesium	ppm	■ 1276	---	---	---
Zinc	ppm	■ 1304	---	---	---
Phosphorus	ppm	■ 1186	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	■ 17	---	---	---

Diagnosis

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The copper level is abnormal. All other component wear rates are normal. Appearance is hazy. There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

Depot: VP855105
Unique No: 11069277
Signed: Jonathan Hester
Report Date: 11 Jun 2024

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GRAPHS

