

OIL ANALYSIS REPORT

VOLVO PENTA

DENNIS GROUL ZF 2022 1906 - ZUES UPPER - STARBOARD GEARBOX

Sample No: VPA056973
Oil Type: MERCURY 0W30

SAMPLE INFORMATION

Sample Number	VPA056973	VPA032187	VPA031279	---
Sample Date	02 Oct 2023	14 Jan 2022	26 May 2021	---
Machine Hours	910	861	762	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Changed	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

OIL CONDITION

Visc @ 40°C	cSt	■ 39.45	■ 37.5	■ 43.8	---
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CONTAMINATION

Silicon	ppm	■ 5	■ 5	■ 3	---
Sodium	ppm	■ 2	■ 0	■ 0	---
Potassium	ppm	■ 4	■ 3	■ 2	---

WEAR METALS

PQ		■ 34	■ 36	■ 36	---
Iron	ppm	■ 54	■ 106	■ 29	---
Copper	ppm	■ 290	■ 268	■ 142	---
Lead	ppm	■ 13	■ 9	■ 3	---
Tin	ppm	■ <1	■ <1	■ <1	---
Aluminum	ppm	■ 2	■ 4	■ 0	---
Chromium	ppm	■ <1	■ 1	■ <1	---
Molybdenum	ppm	■ 52	■ 53	■ 51	---
Nickel	ppm	■ <1	■ 0	■ 0	---
Titanium	ppm	■ 0	■ <1	■ 0	---
Silver	ppm	■ 2	■ <1	■ 0	---
Manganese	ppm	■ 1	■ 1	■ <1	---
Vanadium	ppm	■ 0	■ 0	■ 0	---

ADDITIVES

Calcium	ppm	■ 2601	■ 2754	■ 2520	---
Magnesium	ppm	■ 12	■ 10	■ 14	---
Zinc	ppm	■ 884	■ 849	■ 823	---
Phosphorus	ppm	■ 765	■ 776	■ 712	---
Barium	ppm	■ 0	■ <1	■ 0	---
Boron	ppm	■ 257	■ 253	■ 227	---

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Diagnosis

No corrective action is recommended at this time. 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: VP568144
Unique No: 10675987
Signed: Doug Bogart
Report Date: 04 Oct 2023

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GRAPHS

