

OIL ANALYSIS REPORT

VOLVO PENTA

BOB WADDELL SAM ZF 20198149 - INBOARD - STARBOARD GEARBOX

Sample No: VPA059072

Oil Type: CHEVRON DELO 400 SAE 30

SAMPLE INFORMATION

Sample Number	VPA059072	VPA048965	---	---
Sample Date	25 Sep 2023	07 Apr 2022	---	---
Machine Hours	854	321	---	---
Oil Hours	262	170	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	■ 82.5	79.3	---	---
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CONTAMINATION

Silicon	ppm	■ 9	■ 7	---	---
Sodium	ppm	■ 0	■ 7	---	---
Potassium	ppm	■ 1	■ <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		■ 15	■ 26	---	---
Iron	ppm	■ 18	■ 23	---	---
Copper	ppm	■ 67	■ 109	---	---
Lead	ppm	■ 5	■ 4	---	---
Tin	ppm	■ 5	■ 4	---	---
Aluminum	ppm	■ 5	■ 3	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 49	■ 46	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	■ 0	■ <1	---	---
Silver	ppm	■ 0	■ <1	---	---
Manganese	ppm	■ <1	■ <1	---	---
Vanadium	ppm	■ 0	■ 0	---	---

ADDITIVES

Calcium	ppm	■ 3339	■ 1984	---	---
Magnesium	ppm	■ 71	■ 360	---	---
Zinc	ppm	■ 1153	■ 853	---	---
Phosphorus	ppm	■ 1019	■ 815	---	---
Barium	ppm	■ 2	■ 0	---	---
Boron	ppm	■ 500	■ 171	---	---

Depot: VP794951
Unique No: 10670345
Signed: Don Baldrige
Report Date: 01 Oct 2023

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GRAPHS

