

OIL ANALYSIS REPORT

VOLVO PENTA

BOB WADDELL SAM ZF 20198148 - INBOARD - GEARBOX

Sample No: VPA060784

Oil Type: CHEVRON DELO 400 SAE 30

SAMPLE INFORMATION

Sample Number	VPA060784	VPA048969	---	---
Sample Date	25 Sep 2023	06 Apr 2022	---	---
Machine Hours	855	321	---	---
Oil Hours	264	170	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	83.3	83.7	---	---
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CONTAMINATION

Silicon	ppm	11	6	---	---
Sodium	ppm	0	2	---	---
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		21	22	---	---
Iron	ppm	36	34	---	---
Copper	ppm	125	100	---	---
Lead	ppm	5	2	---	---
Tin	ppm	9	6	---	---
Aluminum	ppm	5	3	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	50	51	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	3363	2030	---	---
Magnesium	ppm	75	359	---	---
Zinc	ppm	1152	858	---	---
Phosphorus	ppm	1027	831	---	---
Barium	ppm	2	0	---	---
Boron	ppm	506	220	---	---

Depot: VP794951
Unique No: 10670346
Signed: Don Baldrige
Report Date: 01 Oct 2023

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GRAPHS

