

OIL ANALYSIS REPORT

VOLVO PENTA

DAVID LEIMAN ZF 20094530 - INBOARD - PORT GEARBOX

Sample No: VPA055678
Oil Type: CAT TDTO 30W

SAMPLE INFORMATION

Sample Number	VPA055678	---	---	---
Sample Date	18 Sep 2023	---	---	---
Machine Hours	753	---	---	---
Oil Hours	95	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

McDonnell Marine Service

63 Old Windsor Rd.
BLOOMFIELD, CT
US 06002-1404
Contact: Brian McDonnell
brmcdonnell@comcast.net
T:
F:

OIL CONDITION

Visc @ 40°C	cSt	■ 94.8	---	---	---
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CONTAMINATION

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

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		■ 13	---	---	---
Iron	ppm	■ 5	---	---	---
Copper	ppm	■ 32	---	---	---
Lead	ppm	■ 27	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 8	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	< 1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 3073	---	---	---
Magnesium	ppm	■ 17	---	---	---
Zinc	ppm	■ 1167	---	---	---
Phosphorus	ppm	■ 1010	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ <1	---	---	---

Depot: VP153357
Unique No: 10661283
Signed: Sean Felton
Report Date: 26 Sep 2023

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GRAPHS

