

OIL ANALYSIS REPORT

**VOLVO
PENTA**

RAG TOP ZF 20088292 - INBOARD - STARBOARD GEARBOX

Sample No: VPA051939

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA051939	---	---	---
Sample Date	09 Oct 2023	---	---	---
Machine Hours	533	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

North Harbor Diesel Inc

720 30Th Street
ANACORTES, WA
US 98221
Contact: ROBBIN MURDOCK
robbin@northharbordiesel.com
T: (360)299-1904
F:

OIL CONDITION

Visc @ 40°C	cSt	■ 92.1	---	---	---
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CONTAMINATION

Silicon	ppm	■ 3	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ <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		■ 16	---	---	---
Iron	ppm	■ 14	---	---	---
Copper	ppm	■ 21	---	---	---
Lead	ppm	■ 1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 27	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	■ 0	---	---	---

ADDITIVES

Calcium	ppm	■ 3187	---	---	---
Magnesium	ppm	■ 89	---	---	---
Zinc	ppm	■ 1139	---	---	---
Phosphorus	ppm	■ 980	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 5	---	---	---

Depot: VP179089
Unique No: 10711065
Signed: Don Baldrige
Report Date: 26 Oct 2023

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GRAPHS

