

OIL ANALYSIS REPORT

**VOLVO
PENTA**

VOLVO PENTA NOT GIVEN VPA046041 - STARBOARD IPS

Sample No: VPA046041

Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA046041	---	---	---
Sample Date	10 Jul 2023	---	---	---
Machine Hours	1029	---	---	---
Oil Hours	40	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

North Harbor Diesel Inc

720 30Th Street
ANACORTES, WA
US 98221

Contact: ROBBIN MURDOCK
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F:

OIL CONDITION

Visc @ 40°C	cSt	█ 107	---	---	---
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CONTAMINATION

Silicon	ppm	█ 9	---	---	---
Sodium	ppm	█ 5	---	---	---
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		█ 13	---	---	---
Iron	ppm	█ 48	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 2	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	█ 0	---	---	---

ADDITIVES

Calcium	ppm	█ 54	---	---	---
Magnesium	ppm	█ 3	---	---	---
Zinc	ppm	█ 38	---	---	---
Phosphorus	ppm	█ 1406	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 319	---	---	---

Depot: VP179089

Unique No: 10562944

Signed: Don Baldrige

Report Date: 20 Jul 2023

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GRAPHS

