

# OIL ANALYSIS REPORT

# VOLVO PENTA

## LEE MURPHEE VOLVO PENTA 3194005347 - STARBOARD GEARBOX

Sample No: VPA002093

Oil Type: VOLVO API GL-5 SAE 75W90

### SAMPLE INFORMATION

Sample Number	VPA002093	---	---	---
Sample Date	05 Aug 2014	---	---	---
Machine Hours	399	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

### Suncoast Diesel Marine Inc.

610 Mount Vernan St

OLDSMAR, FL

US 34677

Contact: MARK WARREN

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### OIL CONDITION

Visc @ 40°C	cSt	■ 87.33	---	---	---
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### CONTAMINATION

Silicon	ppm	▲ 34	---	---	---
Sodium	ppm	■ 70	---	---	---
Potassium	ppm	■ 4	---	---	---

### WEAR METALS

PQ		■ 18.0	---	---	---
Iron	ppm	■ 34	---	---	---
Copper	ppm	▲ 45	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 6	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	■ 7	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	2	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	■ 1122	---	---	---
Magnesium	ppm	■ 303	---	---	---
Zinc	ppm	■ 456	---	---	---
Phosphorus	ppm	■ 942	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 77	---	---	---

### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the oil is acceptable for the time in service.

Depot: VP945077

Unique No: 6715366

Signed: Jonathan Hester

Report Date: 18 Aug 2014

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## GRAPHS

