

# OIL ANALYSIS REPORT

# VOLVO PENTA

## CHAMPAGNE 4458 VOLVO PENTA 20132185716 - STARBOARD DIESEL ENGINE

Sample No: VPA060196

Oil Type: DIESEL ENGINE OIL SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA060196	---	---	---
Sample Date	04 Mar 2024	---	---	---
Machine Hours	154	---	---	---
Oil Hours	154	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

#### Jas Marine Service Inc

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### OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 7.5	---	---	---
Oxidation (PA)	%	33	---	---	---

### Diagnosis

No corrective action is recommended at this time. 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	41	---	---	---
Sulfation (PA)	%	41	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 31	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 24	---	---	---

### WEAR METALS

Iron	ppm	█ 23	---	---	---
Copper	ppm	█ 22	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	█ 11	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 7	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1067	---	---	---
Magnesium	ppm	█ 955	---	---	---
Zinc	ppm	█ 1216	---	---	---
Phosphorus	ppm	█ 1013	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ <1	---	---	---

Depot: VP426065

Unique No: 10913501

Signed: Doug Bogart

Report Date: 08 Mar 2024

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## GRAPHS

