

# OIL ANALYSIS REPORT

# VOLVO PENTA

## JOHN MCINTOSH YANMAR JOHN MCINTOSH (S/N NOT GIVEN) - STARBOARD DIESEL ENGINE

Sample No: VPA058078

Oil Type: DIESEL ENGINE OIL SAE 40

### SAMPLE INFORMATION

Sample Number	VPA058078	---	---	---
Sample Date	15 Jan 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

### MELBOURNE MARINE DIESEL

MELBOURNE, FL  
US  
Contact: SERVICE MANAGER  
info@melbournemarinediesel.com  
T: (321)425-2517  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.53	---	---	---
Base Number (BN)	mg KOH/g	█ 6.5	---	---	---
Oxidation (PA)	%	87	---	---	---

### 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 condition of the oil is acceptable for the time in service.

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	73	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 9	---	---	---

### WEAR METALS

Iron	ppm	█ 15	---	---	---
Copper	ppm	█ 38	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 8	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 2083	---	---	---
Magnesium	ppm	█ 160	---	---	---
Zinc	ppm	█ 1284	---	---	---
Phosphorus	ppm	█ 1084	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 37	---	---	---

Depot: VP1222400  
Unique No: 10832993  
Signed: Doug Bogart  
Report Date: 16 Jan 2024

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## GRAPHS

