



MICHAEL ELDRIDGE SAM VOLVO PENTA A 1139451 - STARBOARD DIESEL ENGINE

Sample No: VPA059177

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION Sample Number VPA059177 VPA056580 Sample Date 05 Mar 2024 23 May 2023 Machine Harms 200 237	
Sample Date 05 Mar 2024 23 May 2023	
Sample Date 05 Mar 2024 23 May 2023	
Machine Hours 390 237	
Oil Hours 151 0	
Oil Changed Changed	
Sample Status NORMAL NORMAL	
OIL CONDITION	
Visc @ 100°C	
Base Number (BN) mg KOH/g ■ 9.8 ■ 9.0	
Oxidation (PA)	
CONTAMINATION	
Water % NEG	
Soot %	
Nitration (PA) % 45 57	
• •	
Glycol % NEG NEG	
Fuel % <1.0 <1.0	
Silicon ppm 9 26	
Sodium ppm 2 5	
Potassium ppm 1 <1 4	
WEAR METALS	
lron ppm □20 □26	
Copper ppm 7 14	
Lead ppm 1 4	
Tin ppm 1 1 3	
Aluminum ppm 16 26	
Chromium ppm 2 3	
Molybdenum ppm 61 102	
Nickel ppm 4	
Titanium ppm 0	
Silver ppm 0	
Manganese ppm	
Vanadium ppm <1 <1	
ADDITIVES	
Calcium ppm 1646 1664	
Magnesium ppm □706 □619	
Zinc ppm ■1064 ■936	
Phosphorus ppm ■844 753	
Barium ppm 1 <1 0	
Boron ppm ■90 ■322	

Endor Marine LLC - Coastal Marine - 152124 4300 11th Ave. NW SEATTLE, WA US 98107 Contact: WILLOW YANARELLA service@coastalmarineengine.com T: (206)784-3703

F: (206)784-8823

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 VP794951

 Unique No:
 10915301

 Signed:
 Don Baldridge

 Report Date:
 10 Mar 2024

OIL ANALYSIS REPORT



