



## WINDSERVE VOLVO PENTA 10132167580 - STARBOARD DIESEL ENGINE

Sample No: VPA046657

**Oil Type:** VOLVO PENTA SAE 15W40

SAMPLE INFORMAT	TION			
Sample Number		VPA046657	VPA045095	 
Sample Date		20 Aug 2023	18 Aug 2023	 
Machine Hours		0	1	 
Oil Hours		7	1	 
Oil Changed		Changed	Changed	 
Sample Status		SEVERE	SEVERE	 
OIL CONDITION				
Visc @ 100°C	aC+	<b>12.95</b>	T 12.05	
	cSt		□12.95 □10.0	 
Base Number (BN) Oxidation (PA)	mg KOH/g %	<b>■</b> 9.9 72	72	 
Oxidation (PA)	70	12	12	 
CONTAMINATION				
Soot %	%	<b>0</b>	<b>0</b>	 
Nitration (PA)	%	43	43	 
Sulfation (PA)	%	57	56	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	<1.0	 
Silicon	ppm	<b>16</b>	□16	 
Sodium	ppm	<b>■</b> 3	<b>■</b> 3	 
Potassium	ppm	<b>■</b> 3	<b>3</b>	 
WEAR METALS				
Iron	ppm	<b>2</b>	<b>2</b>	 
Copper	ppm	2	2	 
Lead	ppm	<b>0</b>	<b>0</b>	 
Tin	ppm	<b>■</b> <1	<1	 
Aluminum	ppm	■0	<b>1</b> 0	 
Chromium	ppm	<b>0</b>	0	 
Molybdenum	ppm	<b>44</b>	<b>4</b> 4	 
Nickel	ppm	 0	0	 
Titanium	ppm	<b>■</b> <1	<1	 
Silver	ppm	O	0	 
Manganese	ppm	<b>1</b>	1	 
Vanadium	ppm	<1	<1	 
ADDITIVES				
Calcium	ppm	<b>1740</b>	<b>□</b> 1725	 
Magnesium	ppm	<b>394</b>	■389	 
Zinc	ppm	<b>■</b> 1073	■ 1069	 
Phosphorus	ppm	<b>■</b> 882	885	 
Barium	ppm	<b>0</b> 02	<b>0</b> 000	 
Boron	ppm	<b>77</b>	<b>1</b> 76	 
DOTOTI	PPIII			

## **SENESCO MARINE**

10 MACNAUGHT ST NORTH KINGSTOWN, RI US 02852 Contact: CLAUDINO LUCIANO cluciano@senescomarine.com T: F:

## Diagnosis

The oil change at the time of sampling has been noted.All component wear rates are normal. There is a high amount of particulates present in the oil. The condition of the oil is acceptable for the time in service.

Depot:VPSENNORUnique No:10609070Signed:Doug BogartReport Date:21 Aug 2023

## **OIL ANALYSIS REPORT**





