# **OIL ANALYSIS REPORT**

## NARDINI VOLVO PENTA 2006036757 - STARBOARD DIESEL ENGINE

Sample No:VPA055010Oil Type:NOT GIVEN

#### SAMPLE INFORMATION

JANILLI INI AVIN	ATION			
Sample Number		VPA055010	 	
Sample Date		16 Jul 2023	 	
Machine Hours		0	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		SEVERE	 	
OIL CONDITION				
Visc @ 100°C	cSt	<b>30.8</b>	 	
Oxidation (PA)	%	154	 	
Oxidation (PA)	70	154	 	
CONTAMINATION				
Water	%	<b>0.504</b>	 	
Soot %	%	0.5	 	
Nitration (PA)	%	357	 	
Sulfation (PA)	%	0	 	
Glycol	%	0.10	 	
Fuel	%	<1.0	 	
Silicon	ppm	<u> </u>	 	
Sodium	ppm	<u> </u>	 	
Potassium	ppm	<b>1</b> 9	 	
WEAR METALS				
Iron	ppm	21	 	
Copper	ppm	2	 	
Lead	ppm	<b></b> <1	 	
Tin	ppm	■<1	 	
Aluminum	ppm	2	 	
Chromium	ppm	■ <1	 	
Molybdenum	ppm	3	 	
Nickel	ppm	<b>1</b>	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	<1	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	1578	 	
Magnesium	ppm	<b>4</b> 7	 	
Zinc	ppm	956	 	
Phosphorus	ppm	763	 	
rnosphorus	ppm	105		



### Diagnosis

F:

We advise that you check for the source of the coolant leak. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform an accurate viscosity test.All component wear rates are normal. Test for glycol is positive. There is a moderate concentration of water present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil is no longer serviceable due to the presence of contaminants.

 Depot:
 VP153685

 Unique No:
 10561109

 Signed:
 Doug Bogart

 Report Date:
 20 Jul 2023

0 🔲

195

ppm

ppm

Barium

Boron

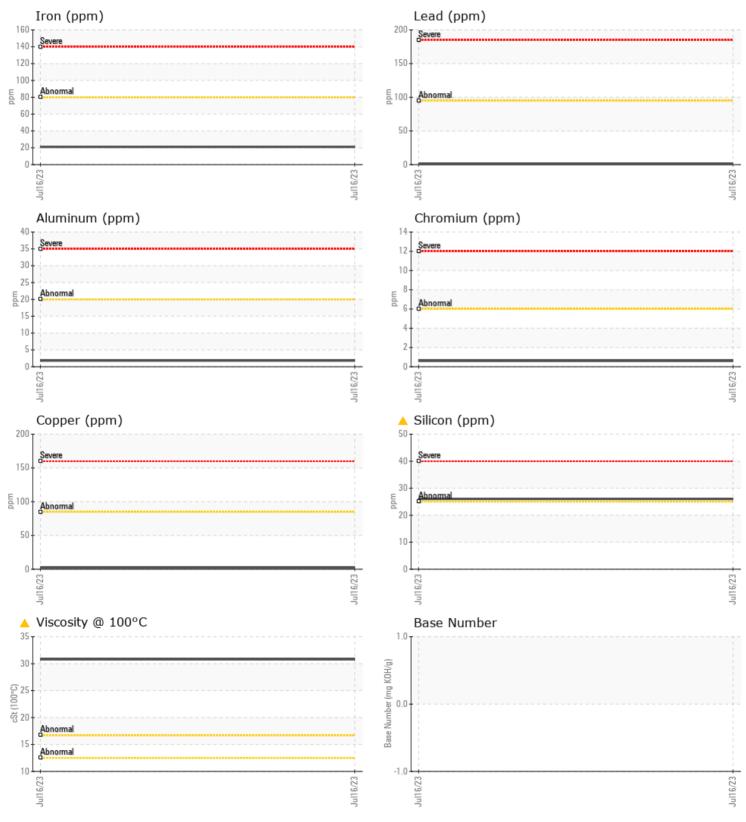
Contact/Location: Ronda Bolinger - VP153685

Outstanding Marine PO Box 274 GALENA, MD US 21635 Contact: Ronda Bolinger rlwb@verizon.net T:

# **OIL ANALYSIS REPORT**



#### GRAPHS



Report Id: VP153685 [WUSCAR] 05899753 (Generated: 07/20/2023 22:08:31) Rev: 1

Contact/Location: Ronda Bolinger - VP153685