



## DM BUTLER DANIEL/502850 VOLVO PENTA 51220211824 - INBOARD - CENTER IPS

Sample No: VPA060070

Oil Type: TEXACO TEXACO HAVOLINE ATF MD-3

CONTAMINATION					
Sample Date   15 Mar 2024	SAMPLE INFORM	IATION			
Sample Date   15 Mar 2024	Sample Number		VPA060070	 	
Machine Hours				 	
Oil Changed         Not Changed         Not Changed         Not Changed         Normal         Image: Control of the c	•			 	
Not Changed   Normal   Norma				 	
Sample Status					
Visc @ 40°C   CSt   26.3       CONTAMINATION			_	 	
Visc @ 40°C   CSt   26.3			11011111111		_
CONTAMINATION	OIL CONDITION				
Water   %   NEG	Visc @ 40°C	cSt	<b>26.3</b>	 	
Silicon	CONTAMINATION	1			
Silicon	Water	%	NEG	 	
Sodium	Silicon	ppm	3	 	
Potassium   ppm     <1	Sodium		■0	 	
WEAR METALS         PQ       21	Potassium		<b>■&lt;1</b>	 	
Copper	WEAR METALS				
Copper	PQ		<b>21</b>	 	
Lead       ppm       15  -	Iron	ppm	<b>■23</b>	 	
Tin ppm <1 Aluminum ppm 2	Copper	ppm	7	 	
Aluminum ppm 2	Lead	ppm	15	 	
Chromium         ppm	Tin	ppm	<1	 	
Molybdenum         ppm	Aluminum	ppm	2	 	
Nickel         ppm         <1	Chromium	ppm	<b>■&lt;1</b>	 	
Titanium         ppm         <1	Molybdenum	ppm	<b>■&lt;1</b>	 	
Silver         ppm         0              Manganese         ppm         <1	Nickel	ppm	<b>■&lt;1</b>	 	
Manganese         ppm         <1	Titanium	ppm	<1	 	
Vanadium         ppm         <1              ADDITIVES           Calcium         ppm         12              Magnesium         ppm         2              Zinc         ppm         4              Phosphorus         ppm         144              Barium         ppm         0	Silver	ppm	0	 	
ADDITIVES  Calcium ppm 12  Magnesium ppm 2  Zinc ppm 14  Phosphorus ppm 144  Barium ppm 0	Manganese	ppm	<1	 	
Calcium         ppm         12              Magnesium         ppm         2              Zinc         ppm         4              Phosphorus         ppm         144              Barium         ppm         0	Vanadium	ppm	<1	 	
Magnesium         ppm         2	ADDITIVES				
Magnesium         ppm         2	Calcium	ppm	<b>12</b>	 	
Zinc         ppm         4               Phosphorus         ppm         144               Barium         ppm         0	Magnesium		<b>2</b>	 	
Phosphorus         ppm         144               Barium         ppm         0	Zinc			 	
Barium ppm <b>0</b>	Phosphorus			 	
	Barium			 	
	Boron		<b>66</b>	 	

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

 Depot:
 VP794951

 Unique No:
 10938137

 Signed:
 Don Baldridge

 Report Date:
 22 Mar 2024

## **OIL ANALYSIS REPORT**



