



## MICHAEL LOCATELL - DISCOVERY YACHTS EVAN/503065 **VOLVO PENTA 5 103939349D - CENTER DIESEL ENGINE**

**Sample No:** VPA061997

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Base Number (BN) mg KOH/g						
Sample Date	SAMPLE INFORMAT	TION				
Sample Date	Sample Number		VPA061007			
Machine Hours   522						
Oil Changed         Changed	•		-			
Oil Changed Sample Status NORMAL						
DIL CONDITION   Status   Sta			-			
Dil CONDITION   DIL CONDITIO			_			
Visc @ 100°C			HORWAL	_	_	_
Base Number (BN) mg KOH/g	OIL CONDITION					
Contamination   Contaminatio   Contamination   Contamination   Contamination   Contamination	Visc @ 100°C	cSt	<b>12.9</b>			
Water   %   NEG       Soot %   %   0.1         Soot %   %   0.1         Soot %   %   0.1         Soot %   %   0.1         Soot %   %   42         Soot %   %   42         Soot %   %   50         Soot %   NEG         Soot %   NEG         Soot %   NEG           Soot %   NEG           NEG %   NEG         NEG %   NEG         NEG %   NEG         NEG %   NEG         NEG %   NEG         NEG %   NEG         NEG %   NEG %         NEG %   NEG %   NEG %         NEG %   NEG %   NEG %         NEG %	Base Number (BN)	mg KOH/g	■9.9			
Neg	Oxidation (PA)	%	55			
Neg	CONTAMINATION					
Soot %		%	NEG			
Nitration (PA)						
Sulfation (PA)						
Silicon   Sili						
Fuel % < <1.0 Silicon ppm 3						
Silicon	-					
Sodium						
Near METALS   Near METALS     Near MetaLS     Near MetaLS	Sodium		_			
Iron	Potassium		_			
Iron	WEAD METALS					
Copper	MENU METAL2					
Lead       ppm       0            Tin       ppm       0            Aluminum       ppm       <1	Iron	ppm				
Tin ppm 0 Aluminum ppm	Copper	ppm				
Aluminum ppm	Lead	ppm				
Chromium       ppm       <1		ppm				
Molybdenum         ppm         62              Nickel         ppm         0              Titanium         ppm         0              Silver         ppm         0              Manganese         ppm         0              Vanadium         ppm         0              ADDITIVES               Calcium         ppm         1208              Magnesium         ppm         1014              Zinc         ppm         1269              Phosphorus         ppm         1083              Barium         ppm         0						
Nickel         ppm         0 <td></td> <td>ppm</td> <th></th> <td></td> <td></td> <td></td>		ppm				
Titanium ppm 0 Silver ppm 0 Silver ppm 0	-	ppm				
Silver         ppm         0 <td></td> <td></td> <th></th> <td></td> <td></td> <td></td>						
Manganese         ppm         <1						
Vanadium         ppm         0               ADDITIVES         Calcium         ppm         1208              Magnesium         ppm         1014              Zinc         ppm         1269              Phosphorus         ppm         1083              Barium         ppm         0						
ADDITIVES  Calcium ppm 1208  Magnesium ppm 1014  Zinc ppm 1269  Phosphorus ppm 1083  Barium ppm 0						
Calcium         ppm         1208              Magnesium         ppm         1014              Zinc         ppm         1269              Phosphorus         ppm         1083              Barium         ppm         0	Vanadium	ppm	0			
Magnesium         ppm         1014	ADDITIVES					
Magnesium         ppm         1014	Calcium	ppm	<b>1208</b>			
Zinc         ppm         1269 </td <td>Magnesium</td> <td></td> <th></th> <td></td> <td></td> <td></td>	Magnesium					
Phosphorus         ppm         1083 <th< td=""><td>Zinc</td><td></td><th></th><td></td><td></td><td></td></th<>	Zinc					
Barium ppm <b>0</b>	Phosphorus					
	Barium					
	Boron					

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## 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:** 11019665 Signed: Don Baldridge Report Date: 11 May 2024

## **OIL ANALYSIS REPORT**



