



VALA RAD VOLVO PENTA 1012587092 - STARBOARD DIESEL ENGINE

Sample No: VPA016665
Oil Type: {unknown}

Machine Hours					
Sample Date	SAMPLE INFORMA	ATION			
Sample Date	Sample Number		VPA016665	 	
Oil Changed N/A	Sample Date		29 Jun 2018	 	
Oil Changed Sample Status N/A DIL CONDITION Visc @ 100°C	Machine Hours		20	 	
NORMAL	Oil Hours		0	 	
Dil CONDITION	Oil Changed		N/A	 	
Vise @ 100°C	Sample Status		NORMAL	 	
Contamination Water Wate	OIL CONDITION				
CONTAMINATION Water % NEG	Visc @ 100°C	cSt	14.58	 	
Neg	Oxidation (PA)	%	■ 56	 	
Soot %	CONTAMINATION				
Soot %	Water	%	NEG	 	
Nitration (PA) %	Soot %			 	
Sulfation (PA)	Nitration (PA)			 	
Silicon Silicon Silicon Silicon Silicon Silicon Silicon Sodium Sod	` '			 	
Fuel			_	 	
Silicon ppm 66	-		<1.0	 	
Sodium				 	
Potassium ppm 7 WEAR METALS Iron ppm 10 Copper ppm 6 Lead ppm 0 Lead ppm 1 Aluminum ppm 1 Chromium ppm 1 Molybdenum ppm 3 Nickel ppm 3 Silver ppm 0 Vanadium ppm 1 Vanadium ppm 2111 ADDITIVES Zinc ppm 1077				 	
Tron	Potassium			 	
Tron	WEAR METALS				
Copper		nnm	10	 	
Lead ppm 0 Tin ppm <1				 	
Tin ppm < 1	• •				
Aluminum ppm 1				 	
Chromium ppm 1 <			_		
Molybdenum ppm 15 -					
Nickel ppm 3 <td></td> <td></td> <td>_</td> <td></td> <td></td>			_		
Titanium ppm 0 Silver ppm 0 Silver ppm 0 Silver ppm 0	-				
Silver ppm 0 Manganese ppm <1					
Manganese ppm <1 Vanadium ppm 0 ADDITIVES Calcium ppm 2111 Magnesium ppm 97 Zinc ppm 1077 Phosphorus ppm 797 Barium ppm 0					
Vanadium ppm 0 ADDITIVES Calcium ppm 2111 Magnesium ppm 97 Zinc ppm 1077 Phosphorus ppm 797 Barium ppm 0					
ADDITIVES Calcium ppm 2111 Magnesium ppm 97 Zinc ppm 1077 Phosphorus ppm 797 Barium ppm 0	-				
Calcium ppm 2111 Magnesium ppm 97 Zinc ppm 1077 Phosphorus ppm 797 Barium ppm 0		ррш	0	 	
Magnesium ppm 97 Zinc ppm 1077 Phosphorus ppm 797 Barium ppm 0					
Zinc ppm 1077 Phosphorus ppm ■797 Barium ppm ■0	Calcium			 	
Phosphorus ppm ■797 Barium ppm ■0				 	
Barium ppm 0	Zinc	ppm		 	
	Phosphorus	ppm	■797	 	
Boron ppm 202	Barium	ppm	■0		
	Boron	ppm	202	 	

Cogswell Marine & Motorsports, Inc

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F:

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:VP152133Unique No:8252344Signed:Don BaldridgeReport Date:05 Jul 2018

OIL ANALYSIS REPORT



