



WEAVER WEAVER VOLVO PENTA A 1047508 - STARBOARD DIESEL ENGINE

Sample No: VPA056612

Oil Type: VOLVO PENTA SAE 15W40

Not Changed Not Changed Sample Status NORMAL Sample Status Sample Sta				 	
Sample Date 10 Jun 2024	SAMPLE INFORMAT	TION			
Sample Date 10 Jun 2024	Sample Number		VPA056612	 	
Machine Hours 20				 	
Oil Changed Sataus Not Changed	•			 	
Oil Changed Not Changed NormAL Sample Status S	Oil Hours			 	
DIL CONDITION Status NORMAL Status Sta					
Dil CONDITION DIL CONDITIO	_		_	 	
Visc @ 100°C	·				
Base Number (BN) mg KOH/g	OIL CONDITION				
CONTAMINATION	Visc @ 100°C		13.0	 	
Water % NEG Nitration (PA) % 42 Sulfation (PA) % 60 Glycol % NEG Fivel % <1.0 Silicon ppm 6 6 Sodium ppm 1 Potassium ppm 1 WEAR METALS Iron ppm 8 Aluminum ppm 1 Aluminum ppm 1 Chromium ppm 1 Molydenum ppm 39 Titanium ppm 0 Titanium ppm 0 Titanium ppm 0 Aluminum ppm 0 Titanium ppm 0 ADDITIVES Displacesium ppm 0 590 Phosphorus ppm 0 1019 Displacesium ppm 0 1019	Base Number (BN)	mg KOH/g	10.3	 	
Neg	Oxidation (PA)	%	76	 	
Neg	CONTAMINATION				
Soot %		0/2	NEG		
Nitration (PA)					
Sulfation (PA)					
Silicon Sili	. ,				
Fuel % < <1.0 Silicon ppm 6					
Silicon ppm	-				
Sodium					
WEAR METALS Iron ppm 8 Copper ppm 2 Lead ppm <1					
WEAR METALS Iron ppm 8 Copper ppm 2 Lead ppm <1					
Section Sect			_		
Copper	MEAK WETALS				
Lead ppm <1	Iron	ppm	■8	 	
Tin ppm	Copper	ppm	2	 	
Aluminum ppm 1	Lead	ppm	■ <1	 	
Chromium ppm	Tin	ppm	■<1	 	
Molybdenum ppm 39 Nickel ppm <t< td=""><td>Aluminum</td><td>ppm</td><th>1</th><td> </td><td></td></t<>	Aluminum	ppm	1	 	
Nickel ppm <	Chromium	ppm	■<1	 	
Titanium ppm 0 Silver ppm 0 Silver ppm 0	Molybdenum	ppm	■39	 	
Silver ppm 0 Manganese ppm <1	Nickel	ppm	■<1	 	
Manganese ppm <1	Titanium	ppm	■ 0	 	
Vanadium ppm <1	Silver	ppm	0	 	
ADDITIVES Calcium ppm 1913 Magnesium ppm 590 Zinc ppm 1019 Phosphorus ppm 850 Barium ppm < <1	Manganese	ppm		 	
Calcium ppm 1913 Magnesium ppm 590 Zinc ppm 1019 Phosphorus ppm 850 Barium ppm <1	Vanadium	ppm	<1	 	
Magnesium ppm 590 Zinc ppm 1019 Phosphorus ppm 850 Barium ppm <1	ADDITIDES				
Magnesium ppm 590 -	Calcium	ppm	1913	 	
Zinc ppm 1019 Phosphorus ppm 850 Barium ppm <1	Magnesium		590	 	
Phosphorus ppm ■850 Barium ppm ■<1	Zinc			 	
Barium ppm □<1	Phosphorus			 	
	Barium			 	
	Boron			 	

Gary Wood's Marine Inc

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Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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:VP152567Unique No:11074810Signed:Sean FeltonReport Date:14 Jun 2024





