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TECHNICAL BULLETIN		
	June 2009 TB 2523	

Cylinder Bore Caution On
2001-2009 GM 6.6L Duramax Diesel Engines

The AERA Technical Committee offers the following information on a cylinder bore caution for 2001-2009 GM 6.6L Duramax diesel engines. This caution should be observed any time cylinder bore assessment is occurring.

This engine block undergoes a special treatment process during original manufacturing to enhance the durability of the piston ring and cylinder wall compatibility. The process involves induction hardening of the upper cylinder bore in a uniform and consistent pattern to deter wear. As shown in the enclosed photo, only the upper bore is treated as this is the area the piston rings are under the most extreme pressure.

It is important that this bore integrity be maintained any time the bores are oversized during any rebuild procedures. Older boring and honing equipment may not be adequate for the processes and leave the scalloped heat treated areas "Raised" above the adjacent areas. It is extremely important that the cylinder bore finish be maintained in its original condition to allow the piston rings to perform their intended functions. AERA machine shops report excellent success using a diamond hone process to finish the bore/hone operations.

The AERA Technical Committee

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Reference:	
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Bulletin Diagram: FIGURE 1. SCALLOPED AREA OF CYLINDER BORES - CYLINDER BLOCK



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Reference: