

September 21, 2010

ALIGNBORING CYLINDER BLOCKS

Throughout the life of an engine, the mainline has a number of different stresses, chief among them torsional fatigue and heat. Properly inspecting the mainline requires a dimensional measurement for size as well as alignment. The latter is often overlooked. One of the key advantages of B&G's mainline reconditioning services is that in addition to dial bore gauges, B&G also uses a chromed precision ground test bar to check for alignment and size.

Reconditioning the mainline at overhaul is necessary for long-term engine performance and reliability. Dimensions such as piston protrusion, block deck height, and main bearing alignments are all affected by the tolerances in the main line. This also establishes the centerline location of the crankshaft when in operation.

Precision throughout the reconditioning process absolutely critical to reducing heat from the main bearings, producing more uniform dissipation throughout the engine.

B&G ALIGNBORING BENEFITS:

- ◆ **Reconditioning based on critical size *and* alignment measurements**
- ◆ **Main bearing heat reduction and more uniform dissipation**
- ◆ **Delivers better engine performance, reliability & longevity**

In addition to highly specialized tooling, B&G Machine has a three axis computerized machining center dedicated to reconditioning the mainline. These machines repeat to within .0001". This repeatability guarantees that our line boring is straight and within the OEM requirements.

B&G's state-of-the art facility offers the most advanced equipment and tooling available for alignboring. Along with an unparalleled commitment to quality, B&G customers can rest assured that their engines will run better and longer.

If you have questions or would like additional information, visit: www.bandgmachine.com or call (800) 645-2384.