redline—in the third-generation E46 M3,

knowledged what everyone already knew by hints about its engine. The new 4.0-liter V-8 is a derivative of the remarkable 5.0-liter V-10 that powers today's M5 and M6. Both powerminum-block-and-head construction, a 90degree V-angle, a 3.6-inch (92-mm) bore, a 3.0-inch (75-mm) stroke, 3.9-inch (98-mm)

pressure die casting made of an aluminum alloy with a high silicon content. The lowly six years ago for the same reasons that BMW selected this approach. The weight and comthe hard silicon crystals that precipitate out of the molten aluminum during casting. To with a thin coating of iron.



resuscitated by a vivacious V-8. BY DON SHERMAN