Eroded water cooled valve seat pockets rebuilt and restored to standard size

An increasing number of four stroke diesel engines with cast iron cylinder covers are employing water cooled valve seats. The range includes: Wartsila 46, 32 and 22, Sulzer ZA40S, MaK M32 and M43, MAN 32/40.

Erosion in the valve seat pocket can take the pocket beyond the manufacturers last standard oversize.

Cast Iron Welding Services utilise a process known as 'Gas Fusion Welding'. We rebuild the entire valve seat chamber with new metal and machine it to accept the manufacturers standard size valve seats. The rebuilt cover is hydraulically tested, class approved and returned to the customer complete and ready to fit.

Welded and machined exhaust valve seat pocket.

Exhaust valve seat fitted and pressure tested.