

AN EVALUATION OF THE EFFECT OF INHIBITED ANTIFREEZE ON CAVITATION – EROSION IN DIESEL ENGINE COOLING SYSTEMS

Evidence has been put forward to show that Cavitation-Erosion can be controlled by the use of proprietary inhibited antifreeze. This investigation shows the reduction in erosion rate to be due to both the presence of the ethanediol base, and the chemical inhibitor package.

The report concludes that:

- The test method offers a practical means of evaluating coolant solutions with respect to their protection against cavitation-erosion/corrosion.
- The presence of inhibitors reduces the effect of cavitation-erosion/corrosion.
- The presence of uninhibited ethanediol reduces the effect of cavitation-erosion/corrosion.
- The presence of both ethanediol and inhibitors in a commercial antifreeze gives an accumulative effect.