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LUBRICATING SYSTEM FOR LARGE DIESEL ENGINES

ABSTRACT

For the lubrication of the cylinders in marine diesel engines, it is normal practice to supply doses of oil through non-return valves in a ring area of the cylinder in immediate connection with the passage of a piston ring. It is aimed at providing a more-or-less uniform distribution of the oil along the circumference of the cylinder. However, a considerable variation is ascertained in the wear along this area. With the invention, use is made of a high-pressure injection through atomisation nozzles, so that an outspread oil mist is formed opposite the individual nozzles, which upon being influenced by the rotating scavenging air in the cylinder is made to impinge against the wall by centrifugal force, and herewith to form a substantially continuous film of oil in a ring area immediately before the passage of the piston ring. There is hereby achieved a good utilisation of the lubricating oil, i.e. a saving in oil, an a reduced and more uniform wear on the cylinder surface, to which can be added that the oil-dosing times become less critical than with conventional lubrication.

Figure 1



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