

ABSTRACT**A method for lubricating a large slow-running two-stroke engine with SIP lubricant injector**

An improvement for lubrication in slow-running two-stroke engine, especially marine diesel engines, is achieved in lubrication using Swirl Injection Principle (SIP) by locating the lubricant injectors (4) closer to the TDC than 1/5 of the full stroke of the piston (32), which is closer than in typical marine diesel engines. This can be achieved by reconstructing cylinder liners (2) or by adding new mounting holes to the cylinder (3). In case that such reconstruction is not possible, an improvement of SIP principles can also be achieved by directing the spray towards the TDC or to a location on the cylinder liner (2) closer to the TDC as compared to the location of the SIP valves, for example under an angle of more than 30 degrees or even more than 60 degrees when measured from a plane normal to the cylinder axis. The two improvements can be combined.

(FIG. 1c)