

Title (en)
DOSING SYSTEM FOR LUBRICATING OIL FOR LARGE DIESEL ENGINES AND METHOD FOR DOSING CYLINDER LUBRICATING OIL TO LARGE DIESEL ENGINE CYLINDERS

Title (de)
DOSIERSYSTEM FÜR SCHMIERÖL FÜR GROSSE DIESELMOTOREN UND VERFAHREN ZUR DOSIERUNG VON ZYLINDERSCHMIERÖL FÜR ZYLINDER GROSSER DIESELMOTOREN

Title (fr)
SYSTÈME DE DOSAGE POUR HUILE DE LUBRIFICATION POUR GROS MOTEURS DIESEL ET PROCÉDÉ DE DOSAGE D'HUILE DE LUBRIFICATION DE CYLINDRE DANS DES CYLINDRES DE GROS MOTEURS DIESEL

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Application
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Abstract (en)
[origin: WO2011116768A1] There is described a dosing system for cylinder lubrication oil for large diesel engine cylinders (5), e.g. in marine engines (32), and including: a central lubricating oil supply, e.g. a central pump station (1); a supply line (31) and a return line (33) to/from the lubricating oil supply for circulating the lubricating oil; a number of injectors (6) corresponding to the number of cylinders in the engine or a multiple thereof, and which are adapted to inject cylinder lubricating oil into an associated cylinder via a nozzle aperture (20), and which via branch lines (7, 15, 16) are connected with the supply and return lines; opening/closing valve units (3) provided in the branch lines (15, 16) between the injectors (6) and the supply and return lines; and a control unit (25) controlling each opening/closing valve unit (3). In order to achieve a flexible central control of injected amount of oil and precise control of timing, the system is designed such that the opening/closing valve units (3) have a first inlet (P) and a first outlet (R) which may connect a first chamber (22) behind a spring-biased closing member (18) in the injectors with the supply line (31) and the return line (33), respectively. The injector (6) further has a second chamber (24) in front of the closing member (18) of the injector, where the second chamber is connected with a branch line (7) connecting the second chamber (24) of the injector with the supply line (31). The control unit (25) is at least connected with the opening/closing valve units (3).

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CPC (source: EP)
F01M 1/08 (2013.01); **F01M 1/16** (2013.01); **F01M 2001/083** (2013.01)

Citation (search report)
See references of WO 2011116768A1

Cited by
EP3434872A1; WO2023088526A1

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