

Title (en)
VARIABLE DISPLACEMENT LUBRICANT PUMP

Title (de)
SCHMIERMITTELVÉRSTELLPUMPE

Title (fr)
POMPE À LUBRIFIANT À DÉPLACEMENT VARIABLE

Publication
EP 3060807 A1 20160831 (EN)

Application
EP 13780121 A 20131021

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Abstract (en)
[origin: WO2015058783A1] The invention refers to a variable displacement lubricant pump (10) for providing pressurized lubricant for an internal combustion engine (70), whereby a pump rotor with several slidable vanes (14) rotating in a shiftable control ring (12) is provided, the control ring (12) being actuated by a hydraulic pressure control including a control chamber (25) with a control ring plunger (24) directly actuating the control ring (12) to control the eccentricity of the control ring (12), the control ring plunger (24) is shiftable along a lateral control chamber wall (27), a first eccentricity limiting opening (26) is provided in the lateral control chamber wall (27), a second eccentricity limiting opening (31) is provided in the lateral control chamber wall (27), and an eccentricity limiting control system (30) is provided to connect or disconnect the eccentricity limiting openings (26,31) to atmospheric pressure dependent on the lubricant temperature T.

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Citation (search report)
See references of WO 2015058783A1

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