

Title (en)

PISTON RING SYSTEM FOR AN INTERNAL COMBUSTION ENGINE WITH DIRECT WATER INJECTION

Title (de)

KOLBENRINGSYSTEM FÜR EINEN VERBRENNUNGSMOTOR MIT WASSERDIREKTEINSPRITZUNG

Title (fr)

SYSTÈME DE SEGMENT DE PISTON POUR UN MOTEUR À COMBUSTION INTERNE À INJECTION DIRECTE D'EAU

Publication

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Application

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Abstract (en)

[origin: WO2022048832A1] The invention relates to a piston ring system for an internal combustion engine, comprising a first compression piston ring (2), a second compression piston ring (4), and an oil scraping piston ring (6). The first compression piston ring (2) has a first ring body (8) with a first upper ring flank (10), a first lower ring flank (12), a first ring inner face (14), a first ring outer face (16), and two first abutting surfaces, and a cylinder running surface (20) of a first contact region (18) of the first ring body (8) is arranged above a first piston ring center (22), at least one first oil pocket (24) being arranged below the first contact region (18) in the circumferential direction; and the second compression piston ring (4) comprises a second ring body (26) with a second upper ring flank (28), a second lower ring flank (30), a second ring inner face (32), a second ring outer face (34), and two second abutting surfaces, and a cylinder running surface (20) of a second contact region (36) of the second ring body (26) is arranged above or below a second piston ring center (38), at least one second oil pocket (40) being arranged below the second contact region (36) in the circumferential direction, wherein the oil scraping piston ring (6) is a two-part or three-part oil scraping ring.

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