

Title (en)

LUBRICATION SYSTEM FOR AN INTERNAL COMBUSTION ENGINE COMPRISING AN EXHAUST GAS TURBOCHARGER

Title (de)

SCHMIERSYSTEM FÜR EINE BRENNKRAFTMASCHINE MIT ABGASTURBOLADER

Title (fr)

SYSTÈME DE LUBRIFICATION POUR UN MOTEUR À COMBUSTION INTERNE COMPRENANT UN TURBOCOMPRESSEUR À GAZ D'ÉCHAPPEMENT

Publication

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Application

EP 07802231 A 20070908

Priority

- EP 2007007852 W 20070908
- DE 102006048504 A 20061013

Abstract (en)

[origin: WO2008046475A2] The invention relates to a lubrication system for an internal combustion engine comprising an exhaust gas turbocharger. An oil pump comprising an inlet is used to suck oil from an oil trough (12) arranged beneath a crankcase (10) of the internal combustion engine, and to supply the oil to areas of the internal combustion engine and parts of the exhaust gas turbocharger (28) to be supplied with oil. Oil is supplied to the exhaust gas turbocharger from the oil pump via supply channels formed in the crankcase and originating in the lower side of the crankcase, which borders the inner space of the oil trough, and oil is sucked out of the exhaust gas turbocharger via a return line (34, 38, 44). The oil pump is arranged inside the region defined by the oil trough and the lower side of the crankcase, and the return line (34, 38, 44) is at least partially formed by a channel (38) created in the crankcase (10). The outlet of said channel (42) is located in the region of the crankcase, which is covered by the oil trough (12).

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2008046475A2

Citation (examination)

- JP S5749024 A 19820320 - HONDA MOTOR CO LTD
- EP 1176301 A2 20020130 - VOLKSWAGEN AG [DE]
- DE 4431088 A1 19960307 - KLOECKNER HUMBOLDT DEUTZ AG [DE]
- DE 3532695 C1 19861127 - AUDI AG
- JP 2005264918 A 20050929 - FUSO ENGINEERING CORP, et al
- JP H09151718 A 19970610 - ISEKI AGRICULT MACH

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