

Title (en)

METHOD FOR OPERATING AN EXHAUST AFTERTREATMENT SYSTEM OF AN INTERNAL COMBUSTION ENGINE AND EXHAUST AFTERTREATMENT SYSTEM

Title (de)

VERFAHREN ZUM BETREIBEN EINER ABGASNACHBEHANDLUNGSANLAGE EINER BRENNKRAFTMASCHINE UND ABGASNACHBEHANDLUNGSANLAGE

Title (fr)

PROCÉDÉ D'OPÉRATION D'UN SYSTÈME DE POST-TRAITEMENT D'UN MOTEUR À COMBUSTION INTERNE ET SYSTÈME DE POST-TRAITEMENT

Publication

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Application

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Abstract (en)

[origin: WO2019105859A1] The invention relates to a method for operating an exhaust gas aftertreatment system of an internal combustion engine and to a corresponding exhaust gas aftertreatment system. The method relates to the checking of an SCR particle filter (3) of the exhaust gas aftertreatment system for functional capability with respect to the filtering effect of the SCR particle filter and NOx/NH3 conversion by causing a defined NOx and/or NH3 concentration change upstream of the SCR particle filter (3) and, in a defined time frame (TW) immediately following said concentration change, measuring the NOx and/or NH3 concentration change downstream of the SCR particle filter (3) and, on the basis thereof, providing a concentration comparison value (VgW). On the basis of a comparison of the concentration comparison value (VgW) with predefined limit values (GW), the SCR particle filter (3) is then diagnosed as faulty if the concentration comparison value (VgW) has exceeded at least one predefined limit value (GW). The exhaust gas aftertreatment system according to the invention is designed to carry out the aforementioned method. By means of the aforementioned method and the exhaust gas aftertreatment system, a diagnosis of an SCR particle filter (3) can be carried out as an on-board diagnosis, with high reliability and robustness with respect to interfering influences.

IPC 8 full level

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Citation (examination)

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