Title (en)
DIAGNOSTIC METHOD FOR A DIESEL ENGINE

Title (de)
DIAGNOSEVERFAHREN FÜR EINEN DIESELMOTOR

Title (fr)
PROCÉDÉ DIAGNOSTIQUE POUR UN MOTEUR DIESEL

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EP 10798531 A 20101214

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Abstract (en)
[origin: WO2011073175A1] The present invention is related to a diagnostic method for a Diesel engine for determining whether said engine is affected by one or several malfunctions negatively impacting the degree of pollution of the exhaust gases produced by said engine, comprising the steps of providing a Diesel engine comprising a motor block, air intake means, exhaust gas outlet means and fuel injection means, measuring, according to a predetermined state of said engine, the level, or the evolution of said level, of a first exhaust gas emitted by the internal combustion engine, said exhaust gas being selected from the group consisting in carbon dioxide (CO_2), carbon monoxide (CO), nitrogen oxides (NOx) and unburnt hydrocarbons (HC) or a combination thereof, measuring the overall exhaust gas output, measuring at least one operating parameter, said operating parameter being selected from the group consisting of engine speed, engine charge, air inflow, forced induction pressure, water temperature, pressure of the high pressure feeding circuit, fuel inflow, set point of opening of the exhaust gas recirculation valve, individual injector volume correction, exhaust gas temperature, differential pressure on the particulate filter or a combination thereof, and analysing the measures performed by a comparison of said measures to the ones being characteristic of one or several predetermined normal or abnormal states of said engine, deducing from said measures, a malfunction affecting said engine.

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Citation (search report)
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Cited by
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