

Title (en)

Control method for regeneration of a particle filter

Title (de)

Steuerungsverfahren für die Regeneration eines Partikelfilters

Title (fr)

Procédé de commande pour la régénération d'un filtre à particules

Publication

EP 1524425 A1 20050420 (FR)

Application

EP 04300673 A 20041011

Priority

FR 0311926 A 20031013

Abstract (en)

The process establishes an estimate of the dilution rate (Pdil) of fuel in oil and authorizes the regeneration when the estimate of the dilution rate is less than a preset dilution threshold. The process handles data and controls the engine to achieve regeneration of the particle filter when necessary. The variation in dilution rate (dPdil) is evaluated by a first function (-Fevap) representing the evaporation of the fuel while no regeneration of the filter is in progress, and by a second function while the filter is being regenerated. The second function is the sum of the first function and a third function (Grege). The variation in the dilution rate is evaluated as a function of the speed of rotation of the engine (N) and a variable representing the load on the engine (Qc), such as the flow of injected fuel. The functions are recorded in the form of graphs.

Abstract (fr)

Un système de motorisation comporte un moteur (1), un filtre à particules (3) recevant des gaz d'échappement du moteur (1) pour retenir les particules des gaz d'échappement. Selon un procédé de commande, on traite des Informations et on commande le moteur (1) pour obtenir la régénération du filtre à particules (3) lorsque nécessaire. On établit une estimation du taux de dilution (Pdil) de carburant dans l'huile, et on autorise la régénération si le taux de dilution (Pdil) est inférieur à un seuil de dilution prédéterminé (Sdil). <IMAGE>

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Citation (search report)

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