

Title (en)

PROCESS AND DEVICE FOR TESTING A FUEL TANK VENTILATION SYSTEM

Title (de)

VERFAHREN UND VORRICHTUNG ZUM PRÜFEN EINER TANKENTLÜFTUNGSANLAGE

Title (fr)

PROCEDE ET DISPOSITIF POUR ESSAYER UN SYSTEME D'AERATION DE RESERVOIR DE CARBURANT

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Application

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Abstract (en)

[origin: WO9218764A1] The invention discloses a process for testing the performance of a fuel tank ventilation system for a motor vehicle with an internal combustion engine (10). The system has an adsorption filter (14) with a fuel tank breather (17) on its ventilation side, a connecting line (16) to a fuel tank (15) and a fuel tank ventilation valve (13) situated in a connecting line (12) between the engine's inlet manifold (11) and the intake side of the adsorption filter. The process is characterized in that a differential pressure (D_p) which is a measure of the difference in pressure between the ventilation and intake sides of the adsorption filter is measured, and the throughput of the adsorption filter is judged as unsatisfactory if the measured differential pressure exceeds a threshold value ($D_p - ?SW$). This process, as well as similar processes mentioned in the description, makes it possible for the first time to monitor the throughput of an adsorption filter in a fuel tank ventilation system. If the process is used in addition to conventional processes for monitoring the gas-tightness of the system or the performance of the fuel tank ventilation valve, for example, the overall performance of a fuel tank ventilation system can be monitored more efficiently.

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