
**Road Vehicles — Aerosol separator
performance test for internal
combustion engines —**

Part 5:
**Engine fractional efficiency test
method and upstream distribution
sampling method**

*Véhicules Routiers — Norme d'essai de performance des filtres des
circuits fermés de ré-aspiration des gaz de carter moteur —*

*Partie 5: Méthode d'essai d'efficacité fractionnaire moteur et méthode
d'échantillonnage de la distribution amont*

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Foreword

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Introduction

Engine crankcase blowby is composed of combustion exhaust gases which have escaped to the crankcase via piston ring seals and lube oil aerosols generated by thermal and mechanical action within the engine. These gases are vented from the crankcase to prevent a build-up of high pressure. The constituents of vented engine blowby gases are recognized as an undesirable contaminant and technology for their containment is therefore evolving.

The device used to separate oil aerosols from the blowby typically releases cleaned gases to atmosphere or into the air inlet prior to the engine or turbo compressor (if present). The latter has led to the requirement for a pressure control device to isolate the engine from turbo inlet suction.

It is the purpose of this document to either define standardized and repeatable test procedures for the evaluation of blowby oil aerosol separators and filtering devices using this engine fractional efficiency test method and/or determining the size distribution of the blowby aerosol from the engine.

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