

PAS 777:2013

Specification for the qualification and labelling of used automotive engines and any related transmission units

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authenticity 信賴性 autenticidade
condition 状態 condição
provenance 起源 proveniência
traceability 追跡可能性 traçabilidade



Sun Partners Co.,Ltd

KAIHO SANGYO Co., Ltd.



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Foreword

This Publicly Available Specification (PAS) was sponsored by Kaiho Sangyo Company Limited and Sun Partners Company Limited, of Japan. Its development was facilitated by BSI Standards Limited. It came into effect in October 2013.

The overall purpose of this document is to provide a specification for the qualification and labelling of used automotive engines and any related transmission units, using a robust, auditable procedure that can be applied in any part of the world.

Acknowledgement is given to the following organizations involved in the development of this PAS through nomination of members of the steering group:

- Autoparts Ijichi Co. Ltd, Japan
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Acknowledgement is also given to the members of a wider Expert Review Panel who were consulted in the development of this PAS.

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It has been assumed in the preparation of this PAS that the execution of its provisions will be entrusted to appropriately qualified and experienced people, for whose use it has been produced.

This document should not be used to support a statement of engine quality.

NOTE See introduction, Page iii.

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Introduction

Background

As the global community attempts to ensure the sustainability of 21st century civilization, whilst at the same time reversing the degradation of the environment that has been an unintended impact of that civilization, it is inevitable that consideration will be given to the increased reuse of the products and artefacts that have been the primary drivers of modern life.

Increased reuse of these items is expected to not only reduce the negative impact on the environment caused by overconsumption of resources and subsequent product disposal, but also have positive impact on both the economy and the environment through savings in energy consumption, materials and other production costs.

Prominent amongst such products is the automotive vehicle engine and transmission unit, and here for a variety of reasons, there is growing interest in extending the useful life of complete engines and related transmission units through 'reuse' rather than through the recycling of components and materials.

For reuse to be a credible and accepted option, it is necessary that the individual or organization considering such reuse should be in possession of sufficient, reliable information about the ownership, use history and current condition of the engine and any related transmission units to enable a decision to be made as to whether viable, on-going functionality can be expected.

PAS objectives

This PAS sets out a process for the collation, recording and presentation of relevant engine and related transmission unit data that can be validated to provide provenance for used automotive engines and any related transmission units. The information to be provided is considered essential to a sound understanding of the potential life and performance of the engine and related transmission unit, and the methods specified for gathering and presenting that information are robust, repeatable and transparent.

The PAS therefore focuses on the quality of the information to be provided with the engine and transmission unit, and establishes conditions that need to be fulfilled for a used engine and related transmission unit to be placed on the market with provenance. An engine and related transmission unit that is the subject of an information set that fulfils the specified conditions of this PAS can therefore be considered as qualified in accordance with PAS 777.

Use of the specified process will enable a reliable demonstration of the accuracy and validity of the collated data in a manner that can be independently verified when required.

The Qualification Characteristics Matrix Outcome (QCMO) provided in PAS 777 is an attempt to provide for some uniformity and traceability in what is in fact a judgement about the general condition of the engine at the time of qualification.

Some of the QCMO characteristics are therefore quality related but in the PAS 777 context are not to be considered quality specific.

PAS development and future

The development of PAS 777 was facilitated by British Standards through application of a well established and accepted consensus based process based on the process used in much of the world's standards development activity. BSI has also used internationally accepted standards drafting principles in its presentation.

Based on initial technical information provided by Japanese company Kaiho Sangyo and further developed by a group of international industry experts (see *Foreword*) the draft PAS was submitted to scrutiny by a panel of invited experts as well as made available for public comment, before being finalized for publication.

This process has therefore created a *specification for the qualification and labelling of used automotive engines and any related transmission units* that can help to establish confidence in the international trading of used automotive engines and related transmission by ensuring that the provenance provided with each engine and transmission is sufficient and reliable.

PAS 777 does not provide a method for specifying the quality of any particular used engine or any related transmission unit. It does however provide for information to be made available with each engine and any related transmission unit that will permit judgements as to potential engine and transmission value, to be reliably made.

It is envisaged that given its international background and the methods employed for its development and presentation, PAS 777 will be suitable for submission for consideration as a potential future ISO Standard, should such progression be thought beneficial.

1 Scope

This PAS specifies the procedure to be followed in establishing the nature and provenance of essential information to be provided when a used automotive engine and any related transmission unit is to be offered for reuse and establishes rules for the presentation of that information in a consistent and auditable manner.

This procedure identifies the content and nature of information commonly accepted as adequately describing the condition of used automotive engines and supporting the provenance of any related transmissions, setting out the set of predetermined characteristics necessary for their effective labelling.

This PAS only provides for the qualification and labelling of engines and the provenance of any related transmissions submitted for qualification in vehicle. This PAS should not be used to support a statement of engine quality.

This PAS has been developed on the basis of internationally sourced expertise to provide a system for the labelling of used automotive engines and any related transmission units that can be uniformly adopted world-wide.

This PAS does not include provision for making any judgements as to the quality of particular automotive engines or transmission units.

2 Normative cross references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS EN ISO/IEC 17021 *Conformity assessment - Requirements for bodies providing audit and certification of management systems*