

ISBN 978-0-626-32155-0

**SANS 10219-2:2006**

Edition 2

# **SOUTH AFRICAN NATIONAL STANDARD**

**The determination of performance (at net power) of industrial internal combustion engines**

**Part 2: Test methods**

## SANS 10219-2:2006

Edition 2

### Table of changes

Change No.	Date	Scope

### Acknowledgement

The SABS Standards Division wishes to acknowledge valuable assistance derived from publications of the International Organization for Standardization.

### Foreword

This South African standard was approved by National Committee SABS/TC 022, *Construction of motor vehicles*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This edition cancels and replaces edition 1 (SABS 0219-2:1988).

This standard is based on ISO 3046 (parts 1 to 6), *Reciprocating internal combustion engines – Performance*.

SANS 10219 consists of the following parts under the general title *The determination of performance (at net power) of industrial internal combustion engines*:

*Part 1: Standard reference conditions and declarations of power, fuel consumption and lubricating oil consumption.*

*Part 2: Test methods.*

*Part 3: Test measurements.*

*Part 4: Speed governing.*

*Part 5: Torsional vibrations.*

*Part 6: Overspeed protection.*

Annex A is for information only.

**Compliance with a South African National Standard cannot confer immunity from legal obligations.**

**Reaffirmed and reprinted in June 2016.  
This document will be reviewed every five years  
and be reaffirmed, amended, revised or withdrawn.**

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## **The determination of performance (at net power) of industrial internal combustion engines**

### **Part 2: Test methods**

#### **1 Scope**

**1.1** This part of SANS 10219 covers acceptance and type test methods for reciprocating internal combustion engines in commercial production.

**1.2** This part of SANS 10219 does not cover engines used to propel:

- a) aircraft;
- b) automobiles and trucks;
- c) agricultural and industrial types of tractors;
- d) road construction and earth-moving machines; and
- e) motorcycles.

#### **2 Normative references**

The following standards contain provisions which, through reference in this text, constitute provisions of this part of SANS 10219. All standards are subject to revision and, since any reference to a standard is deemed to be a reference to the latest edition of that standard, parties to agreements based on this part of SANS 10219 are encouraged to take steps to ensure the use of the most recent editions of the standards indicated below. Information on currently valid national and international standards can be obtained from the SABS Standards Division.

SANS 10219-1, *The determination of performance (at net power) of industrial internal combustion engines – Part 1: Standard reference conditions and declarations of power, fuel consumption and lubricating oil consumption.*

SANS 10219-3, *The determination of performance (at net power) of industrial internal combustion engines – Part 3: Test measurements.*

SANS 10219-4, *The determination of performance (at net power) of industrial internal combustion engines – Part 4: Speed governing.*