

ISO 3046-1:2002-05 (E)

Reciprocating internal combustion engines - Performance - Part 1: Declarations of power, fuel and lubricating oil consumptions, and test methods; Additional requirements for engines for general use

Contents	Page
Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Symbols	2
5 Standard reference conditions	2
6 Test method	2
6.1 General	2
6.2 Adjusted engines	3
6.3 Non-adjusted engines (pre-set engines)	4
6.4 Auxiliaries	5
7 Method of power correction	5
8 Measurement of exhaust emission	5
9 Test report	5
10 Methods of calculating power adjustment and recalculating specific fuel consumption	5
10.1 General	5
10.2 Application	5
10.3 Power adjustment for ambient conditions	6
10.4 Recalculation of fuel consumption at test or site ambient conditions for adjusted engines	7
11 Declarations of power	7
11.1 General	7
11.2 Types of power	8
11.3 Types of power application	9
11.4 Types of power statements	9
12 Designation of power	10
12.1 Relation of codes to power	10
12.2 Designation of power by means of codes	10
12.3 Examples of power designation by the use of codes	12
13 Declaration of fuel consumption	13
13.1 Fuel consumption	13
13.2 Calorific value of fuels	13
13.3 Declaration of specific fuel consumption	13

14	Declarations of lubricating oil consumption	13
15	Information to be supplied by the customer	14
16	Information to be supplied by the engine manufacturer	14
	Annex A (normative) Examples of auxiliaries which may be fitted	16
	Annex B (informative) Tables for determination of water vapour pressure, ratios and factors	18
	Annex C (informative) Example of calculating power adjustment and recalculating specific fuel consumption from standard reference conditions or substitute reference conditions to site ambient conditions	25
	Annex D (informative) Examples of power adjustment from site ambient conditions to test ambient conditions and simulation of site ambient conditions for adjusted engines	28
	Bibliography	30