

ISO 6395:2008-03 (E)

Earth-moving machinery - Determination of sound power level - Dynamic test conditions

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Instrumentation	2
5	Test environment	2
5.1	General	2
5.2	Test site and environmental correction, K2A	2
5.3	Test site	3
5.4	Background noise correction, K1A	4
5.5	Climatic conditions	4
6	Measurement of time-averaged A-weighted sound pressure levels	4
6.1	Size of measurement surface	4
6.2	Microphone positions on the hemispherical measurement surface	4
6.3	Positioning the machine	5
7	Set-up and operation of machine	6
7.1	General	6
7.2	Engine speed	7
7.3	Fan speed	7
7.4	Travel mode operation of machine	7
8	Determination of A-weighted sound power level	8
8.1	Measurement procedure	8
8.2	Calculation of A-weighted sound power level	8
8.3	Determination of measurement result	9
9	Information to be recorded	9
10	Information to be reported	10
10.1	Information	10
10.2	Declaration of sound emission data and uncertainty	10
Annex A (normative) Basic length, l, and additional machine specifications		11
Annex B (normative) Excavators (hydraulic or cable-operated)		23
Annex C (normative) Dozers		25
Annex D (normative) Loaders		26
Annex E (normative) Backhoe loaders		28

Annex F (normative) Dumpers	30
Annex G (normative) Graders	32
Annex H (normative) Landfill compactors	33
Annex I (normative) Trenchers	34
Annex J (normative) Scrapers	35
Annex K (normative) Pipelayers	37
Annex L (normative) Ride-on operated rollers	39
Annex M (informative) Additional guidelines for measurement of A-weighted sound power level of earth-moving machinery -- Dynamic test conditions	41
Annex N (normative) Declaration of sound emission data and uncertainty	42
Bibliography	43