

ISO 22423:2019 (E)

Foil bearings — Performance testing of foil thrust bearings — Testing of static load capacity, bearing torque, friction coefficient and lifetime

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Symbols
4.1	Basic characters — Roman alphabet
4.2	Basic characters — Greek alphabet
4.3	Additional signs — Subscripts
5	Purpose of test
6	Test conditions
6.1	General
6.2	Design of test apparatus
6.3	Installation of sensors
6.4	Test specimens
7	Test methods
7.1	Principle
7.2	Start–stop test cycle and evaluation of the take-off speed
7.3	Calculation of bearing torque and load
7.4	Determination of static load capacity
7.5	Evaluation of static load capacity per unit area
8	Friction coefficient
9	Durability test and lifetime
9.1	Test procedure
9.2	Determination of lifetime
10	Test report
Annex A	(informative) Configuration of a typical foil thrust bearing
Annex B	(informative) Test report

Page count: 13