

DIN EN ISO 20623:2018-04 (E)

Petroleum and related products - Determination of the extreme-pressure and anti-wear properties of lubricants - Four-ball method (European conditions) (ISO 20623:2017)

Contents

Page

European foreword	3
Foreword	4
Introduction	5
1 Scope	7
2 Normative references	7
3 Terms and definitions	7
4 Principle	8
5 Cleaning solvents	8
6 Apparatus	9
7 Samples and sampling	11
8 Preparation of apparatus	11
9 General procedure	11
10 Test procedures	13
10.1 Test A — Load-Wear Index (LWI)	13
10.2 Test B — Wear-load curve, welding load, and initial seizure load	13
10.3 Test C — Wear test	14
11 Calculations	15
11.1 General	15
11.2 Test A — Load wear index	15
11.3 Test B — Wear-load curve, initial seizure load	16
11.4 Test C — Wear test	16
12 Expression of results	17
13 Precision	17
13.1 General	17
13.2 Repeatability	17
13.3 Reproducibility	17
14 Test report	17
Annex A (normative) Test ball specifications	19
Annex B (normative) Mean Hertz Load data sheet	20
Bibliography	22