

# 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
<b>1</b> Scope .....	7
<b>2</b> Normative references .....	7
<b>3</b> Terms and definitions .....	7
<b>4</b> Principle .....	8
<b>5</b> Cleaning solvents .....	8
<b>6</b> Apparatus .....	9
<b>7</b> Samples and sampling .....	11
<b>8</b> Preparation of apparatus .....	11
<b>9</b> General procedure .....	11
<b>10</b> 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
<b>11</b> 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
<b>12</b> Expression of results .....	17
<b>13</b> Precision .....	17
13.1 General .....	17
13.2 Repeatability .....	17
13.3 Reproducibility .....	17
<b>14</b> Test report .....	17
<b>Annex A</b> (normative) Test ball specifications .....	19
<b>Annex B</b> (normative) Mean Hertz Load data sheet .....	20
<b>Bibliography</b> .....	22