

DIN 51830-1:2022-10 (E)

Testing of lubricants - Determination of oxidation stability of greases - Part 1: Rapid method

Contents

	Page
Foreword	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions.....	5
4 Principle	6
5 Reagents and materials.....	6
6 Test apparatus	6
7 Sampling.....	7
8 Checking the device	7
9 Preparation of the test device	10
10 Procedure	10
11 Expression of results.....	10
12 Precision	11
12.1 General	11
12.2 Repeatability.....	11
12.3 Reproducibility	11
13 Test report.....	11
Annex A (informative) Description of the device	12
A.1 General requirements	12
A.2 Device set-up	12
A.3 Reaction vessel and screw cap	12
A.4 Electric heater	13
A.5 Seals.....	13
A.6 Valves	13
A.7 Pressure sensor	13
A.8 Temperature sensor.....	13
A.9 Connecting pipes	13
A.10 Cooling fan	13
Annex B (informative) Determination of induction time	14
Bibliography	15

Figures

Figure 1 — Glass dish (sample container)	7
Figure 2 — Calibration set-up.....	8
Figure 3 — Apparatus for checking pressure	9
Figure A.1 — Device set-up	12
Figure B.1 — Typical pressure/time curve	14