DIN 51577-5:2017-08 (E)

Testing of lubricants - Determination of chlorine content - Part 5: Direct determination by optical emis sion spectral analysis with inductively coupled plasma (ICP OES)

Contents

Page

Foreword 3

1 Scope 4

2 Normative references 4

3 Terms and definitions 4

4 Principle 5

5 Apparatus 5
5.1 Atomic emission spectrometer with inductively coupled plasma (ICP OES) 5
5.2 Laboratory apparatus 6

6 Reagents 6

7 Sampling 6

8 Setting the reference curves 6
8.1 Reference solutions 6
8.2 Dilution solution 7
8.3 Calibration solutions and calibration control solutions 7
8.4 Setting the calibration lines 8
8.5 Verification of the calibration 8

9 ICP OES spectrometer settings 8

10 Sample preparation 9
10.1 General 9
10.2 Sample measurement 9

11 Procedure 9

12 Evaluation 9

13 Expression of results 10

14 Precision 10
14.1 General 10
14.2 Repeatability, r 10
14.3 Reproducibility, R 10

15 Test report 11

Bibliography 12