DIN EN ISO 20884:2022-01 (E)

Petroleum products - Determination of sulfur content of automotive fuels - Wavelength-dispersive X-ray fluorescence spectrometry (ISO 20884:2019 + Amd 1:2021) (includes Amendment :2021)

Contents

Page

European foreword ... **3**

[A1] European foreword to Amendment [A1] ... **4**

Foreword ... **5**

[A1] Foreword to Amendment [A1] ... **6**

1 Scope ... **7**

2 Normative references ... **7**

3 Terms and definitions ... **7**

4 Principle ... **8**

5 Reagents ... **8**

6 Apparatus ... **8**

7 Sampling ... **9**

8 Calibration solutions ... **9**
8.1 Blank solution ... 9
8.2 Stock solution ... 9
8.3 Calibration solutions ... 9
8.4 Storage and stability of the calibration solutions ... 10

9 Settings ... **10**
9.1 Measuring parameters ... 10
9.2 Optimization ... 10
9.3 Performance check of the spectrometer ... 10

10 Calibration ... **11**
10.1 General ... 11
10.2 Calibration solutions ... 11
10.3 Calibration curves ... 11
10.4 Checking ... 12

11 Procedure ... **12**
11.1 Samples with sulfur contents between 5 mg/kg and 60 mg/kg ... 12
11.2 Samples with sulfur contents between 60 mg/kg and 500 mg/kg ... 12

12 Expression of results ... **12**

13 Precision ... **13**
13.1 General ... 13
13.2 Repeatability, *r* ... 13
13.3 Reproducibility, *R* ... 13

14 Test report ... **13**

Annex A (informative) **Good practices** ... **14**

Bibliography ... **15**