

DIN EN ISO 13032:2012-06 (E)

Petroleum products - Determination of low concentration of sulfur in automotive fuels - Energy-dispersive X-ray fluorescence spectrometric method (ISO 13032:2012)

Contents	Page
Foreword	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Principle	5
4 Reagents and materials	5
4.1 Diluent oil	5
4.2 Sulfur compounds	6
4.3 Reference materials (CRMs)	6
4.4 Quality control samples	6
5 Apparatus	6
5.1 Energy-dispersive X-ray fluorescence instrument	6
6 Sampling and sample handling	7
7 Apparatus preparation	8
7.1 Analyser	8
7.2 Sample cups	8
8 Calibration	8
8.1 General	8
8.2 Preparation of primary standards	8
8.3 Calibration standards	9
8.4 Calibration procedure	10
9 Procedure	11
10 Calculation	11
11 Expression of results	11
12 Precision	12
12.1 General	12
12.2 Repeatability, r	12
12.3 Reproducibility, R	12
13 Test report	12
Annex A (informative) Matrix effects	13
Annex B (normative) Guidelines for measuring low sulfur concentrations	15
Bibliography	16