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(PAJ)

**Crude oil and petroleum products—
Determination of sulfur content
Part 7 : Wavelength-dispersive X-ray
fluorescence method**

ICS 75.080

Reference number : JIS K 2541-7 : 2003 (E)

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from Petroleum Association of Japan (PAJ), with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law. Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

JIS K 2541 consists of the following 7 parts with the general title *Crude oil and petroleum products—Determination of sulfur content*.

Part 1 : Wickbold combustion method

Part 2 : Oxidative microcoulometry

Part 3 : Quartz-tube combustion method (Air method)

Part 4 : Energy-dispersive X-ray fluorescence method

Part 5 : General bomb method

Part 6 : Ultraviolet fluorescence method

Part 7 : Wavelength-dispersive X-ray fluorescence method

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Crude oil and petroleum products— Determination of sulfur content Part 7 : Wavelength-dispersive X-ray fluorescence method

1 Scope This Japanese Industrial Standard specifies the method of quantitative determination of sulfur content in the range from 5 mass ppm to 500 mass ppm in homogeneous liquid fuels such as automobile gasoline, kerosene, light oil, etc.

- Remarks**
- 1 Although dangerous reagents, operations and test apparatus are sometimes used in this Standard, this Standard does not purport to address all safety precautions, therefore, the user of this Standard shall establish the precautionary measures for safety and health prior to the test.
 - 2 This Standard can be applied to a sample of oxygen content not more than 2.7 mass %.
 - 3 This Standard can be also applied to the biodiesel oil having main component of fatty acid methylester containing an oxygen content exceeding 2.7 mass % [refer to **4 b) 2)** and **7 a)**], however the precision shall not be applied.

- Information**
- 1 This Standard has been prepared by referring to **ISO/DIS 20884** *Petroleum products—Determination of low sulfur content of automotive fuels—Wavelength-dispersive X-ray fluorescence spectrometry*, proposed in 2002.
 - 2 The group of standards including this Standard specify the test methods shown in Informative Table 1.