

TIA-92009enL

Application Memo Total Acid Number of Turbine Oil

Industry Petrochemicals

Instrument Automatic potentiometric titrator

Measurement method Acid-base titration

Standards JIS K2501, ASTM D664, ISO 6619

1. Overview

Measurement of total acid number of petroleum products is specified in JIS K 2501-2003 "Petroleum products and lublicants - Determination of neutralization number". A test sample is usually dissolved in mixture of toluene, 2-propanol and a small amount of water, and the sample is titrated by potentiometry with 0.1mol/L potassium hydroxide + 2-propanol solution. The endpoint is obtained on the titration curve. The total acid number is calculated from the titration volume up to the endpoint.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier STD)

Electrode pH Glass electrode

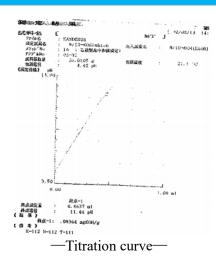
Double junction reference electrode Temperature compensation electrode

3. Reagents

Titrant 0.1mol/L potassium hydroxide + 2-propanol solution

Solvent Toluene, Pure water, 2-propanol

4. Example



—Measurement results—			
	Sample	Titer	Acid
			number
	(g)	(mL)	(mgKOH/g)
1	20.0105	0.4637	008364

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