

KES

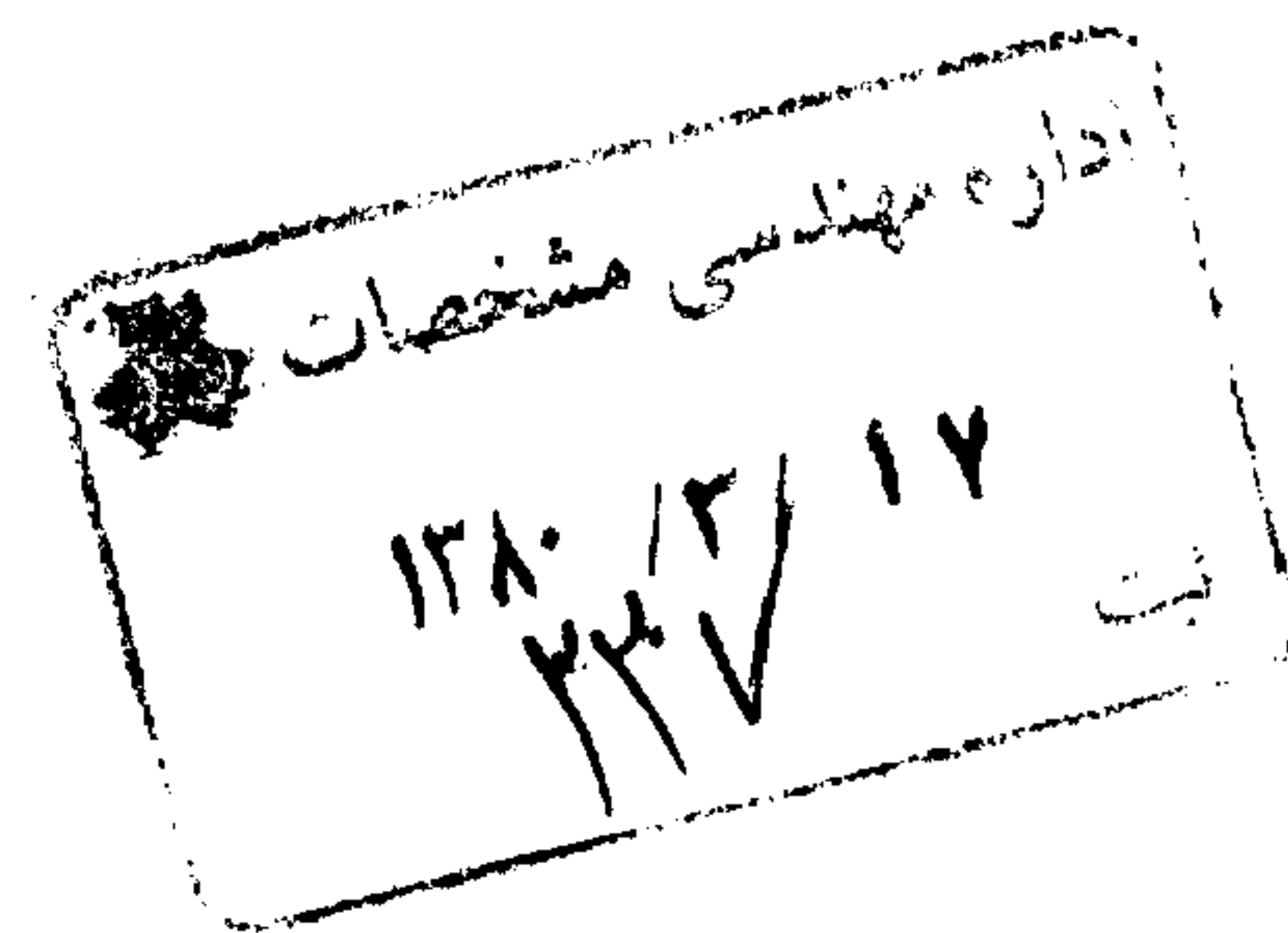
Analysis of Calcium of Brake Fluid

KES T – M059

(EST.) 1988 – 11 – 21

Contents

1. Scope of Application
2. Outline
3. Reagent
4. Operation
5. Calculation
6. Precision



1. Scope of application

This standard prescribe the method for analysis calcium of brake fluid by atom photometry.

2. Outline

After dilution some amount of sample, spray to air-acetylene flame of wave length 422.8 nm then measure then extinction degree to fix quantitative of calcium.

3. Reagent.

(1) HCl(1 : 1)

(2) Lantane solution (5 W/V %)

Dissolve oxi-lantane 29 g with 500 ml of HCl(1 : 1) 500 ml.

(3) Standard calcium solution (0.05 mg Ca / ml) : After drying calcium carbonate at 180 °C for one hour and cooling in desiccator, spray to dissolve 1250 g to 50 ml of water then add 20 ml of HCl(1 : 1)

Heat till boiling with removing carbon dioxide then after method, shift to 1 l flask and add ethyl alcohol to scale.

(4) Ethyl alcohol

4. Operation

(1) After shifting some amount of sample to 100 ml flask, add HCl(1 : 1) 20 ml and dilution to scale with ethyl alcohol.

(2) After shift this solution to dried flask, add lantane solution (5 W/V %) 10 ml.

(3) Spray sample solution to air-acetylene flame of wavelength 422.7 nm to measure extinction degree of calcium.

(4) With using ethyl alcohol at the same amount of sample to make cipher sample, do