



## AMERICAN INTERNATIONAL GEMOLOGISTS The AIG Gem & Jewelry Appraisal

2715 Edgeview Ct. • Newbury Park, California 91320  
Tel: (805) 499-3012 • Fax (805) 375-6560 • Email: info@aiglabs.com

Appraisal No. 019012345648RTF

# Natural Alexandrite

Purpose of Appraisal **Retail Replacement Value**  
Function of Appraisal **Insurance**

One oval mixed cut **Natural Alexandrite**, measuring 10.71 x 7.61 x 5.30mm, exact weight 3.44ct., clarity is moderately included, type I, medium dark, slightly grayish, very slightly bluish green color, (GIA vs1bG 6/2) to dark, very slightly grayish, strongly purplish red, (GIA stpR 7/3), cut is good. Transmitting light with no distortion, transparent. Naturally occurring internal characteristics are present.

**Refractive index** testing results of 1.746 to 1.755. This is a conclusive result for alexandrite. The very slightly bluish green color was photographed under 6000K daylight; the strongly purplish red color was photographed under 2000K incandescent light. Naturally occurring internal characteristics are present. Colored Stone Grading Report attached

Alexandrite was discovered in the 1830's near the Tokovaya River in the Ural Mountains of Siberian Russia on the birthday of the Czar Alexander II. Since it appears red and green, the same colors as the national colors of Imperial Russia, it later became the national gemstone of Russia. The name "alexandrite" became official in 1842 to honor Czar Alexander II.

*Edwin Streeter wrote in Precious Stones and Gems (1898): "The wonderful alexandrite is an emerald by day and an amethyst at night."*

**Alexandrite is a variety of chrysoberyl.** It contains both beryllium and chromium. It is the chromium that accounts for the spectacular color change. The color change is the primary qualification for a chrysoberyl to be considered alexandrite. Alexandrite is strongly trichroic. Its color change results in a near-equal transmission of the blue-green and red portions of the spectrum, coupled with strong absorption in the yellow. Today Alexandrite is found in Brazil, India, Madagascar, Myanmar, Russia, Sri Lanka, Tanzania and Zimbabwe.

**Retail Replacement Value**     \$ 49,000.00 US



**AIG Staff Appraiser / Graduate Gemologist GG GIA**  
*AIG Labs Colored Gemstone Appraisal Department*

**Date: July 22, 2011**