



Images do not accurately portray size or color.

Accu-Vu™ Imaging:



Comments:

This diagram is an example and does not represent the actual facet arrangement of the item described

General Report Comments:

American Gemological Laboratories
580 Fifth Avenue • New York, NY 10036 • 212.704.0727 • www.aglgemlab.com
(Please see the back of this document for important disclaimer information) © 2024 AGL

Imaging

Document No: 1144987 Validation Date: 12 December 2024

Identification

Mineral Type: Natural Zircon Transparency: Transparent
Variety: Color Description: Greenish Blue

Carat Weight: 115.80 cts Shape: Cushion
Measurements: 26.03 x 22.24 x 17.94 mm Cutting Style: Mixed Cut

Comments: The unusual combination of size, absence of treatment and quality factors present in this material contributes favorably to its rarity and desirability.

Identification

Enhancement

Standard: See comments Additional: Clarity enhancement: None
Stability Index: Color Stability: Excellent

Comments: This color variety of zircon is commonly the result of a relatively low temperature heating process.

Enhancement

1	2	3	4	5	6	7	8	9	10	None	Insignificant	Minor	Moderate	Strong	Prominent
Excellent	Very Good	Good	Fair	Poor	Extremely Rare	Very Rare	Rare	Uncommon	Common	Very Common					

Enhancement Stability Index™

Degree of Clarity Enhancement & Relative Rarity™

M. Chaipaksa
Monrudee Chaipaksa, Senior Gemologist

Christopher P. Smith
Christopher P. Smith, President



Am

pr

mx



1144987
Natural Zircon
115.80 cts

12 December 2024

Natural Greenish-Blue Zircon

Weight: 115.80 cts

Reference: 1144987

To whom it may concern,

Zircon is one of the most historically significant gemstones. Throughout history there are references to it as a highly cherished gemstone. This tradition continues through to modern times, where certain colors and sizes of zircon are quite rare and equally appreciated. As a tribute to its appreciation, zircon has also been designated as the birthstone for the month of December.

The modern derivation of the mineral name *zirkon* (zircon in English) comes from noted German geologist Abraham Gottlob Werner in 1783. Earlier references to the mineral come from the Arabic "zar" for gold or golden and "gun" for color or colored ("azargun" in Persian). Derived from the ancient Greek λυγκύριον (or lynkýrion) dating back to approximately 300 BCE.

Zircon is a zirconium silicate mineral with a chemical composition of $ZrSiO_4$. Originally formed by crystallization from magma or in metamorphic rocks, zircon comprises some of the oldest minerals in terms of geologic history with grains of zircon recovered from a sandstone in western Australia dating back to approximately 4.2 to 4.3 billion years. The mineral zircon typically contains rare-earth and radioactive elements as part of its chemical makeup. It is these unique elements that permit the 'age' of a zircon to be determined. They also imbue an intriguing trait in which the mineral will naturally transform from a doubly refractive, crystalline state to a singly refractive, amorphous one. This process is known as 'metamictization'.

Zircon comes in a broad array of colors, including golden yellows, champagne browns, cerulean blues, forest greens, cinnamon reds, as well as colorless (or white). In general, the brighter and more richly saturated its color, the rarer and more valuable the gem. In addition to these is one of the more intriguing colors: those of a vibrant blue hue.