



**COLORED STONE REPORT** **ELECTRONIC COPY**

February 4, 2022

IGI Report Number 508135800  
 Species NATURAL BERYL  
 Variety EMERALD  
 Shape and Cutting Style PEAR MIXED CUT  
 Weight 5.36 CARATS  
 Measurements 15.30 x 9.52 x 6.06 mm  
 Color and Transparency GREEN,  
 TRANSPARENT  
 Characteristics NATURAL INCLUSION(S)  
 PATTERN  
 Country of Origin BASED ON CURRENT  
 GEMOLOGICAL INFORMATION  
 THE GEMSTONE DESCRIBED  
 ABOVE WOULD BE CLASSIFIED  
 AS BEING OF "ZAMBIA" ORIGIN



Comments:  
 Indications of moderate clarity enhancement with  
 oil/resin

OPTICAL and PHYSICAL PROPERTIES

Refractive Index	1.577 - 1.583
Birefringence	0.006
Optic Character	UNIAXIAL
Optic Sign	-
Specific Gravity	2.72

*Optical and physical properties are approximate values*

**Species & Variety**

Gems may be classified in different species, according to their basic chemical composition and crystal structure; within a certain species, small differences in composition may result in different colors, or varieties.

The way that light interacts with the gem may create some astonishing optical phenomena, such as a star, a cat's eye effect or change of color, in different varieties

**Transparency**

As light passes through a gemstone, part of it, if not all, will be absorbed, and part will be transmitted. The more light that is absorbed the less transparent the stone will be.

**Characteristics**

Internal characteristics are the fingerprints of a gemstone. Not only do they provide essential information about the formation, but also the possible geological and geographical region where they originate from. Sometimes they also provide information about whether the gemstone has been treated.

**Refractive Index**

When light passes through air and enters a gemstone it slows down due to a difference in the medium. The ratio between the speed of light in air and in a particular medium is known the Refractive Index.

**Optic Character**

Determining how light travels through the crystal. Using a range of specialized instruments, we will be able to establish if the stone is isotropic or anisotropic, uniaxial or biaxial.

**Specific Gravity**

Specific gravity is the ratio of the density of the gemstone to the density of an equal volume of water.

All IGI Laboratories employ a wide range of state-of-the-art equipment, like FTIR and Raman spectrometers, all of which give a unique spectral graph for different gemstones. They can reveal the species of the gemstone, treatments and, at times, even the geographic origin.



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 Species NATURAL BERYL  
 Variety EMERALD  
 Shape and Cutting Style PEAR MIXED CUT  
 Weight 7.31 CARATS  
 Measurements 15.26 x 9.54 x 7.86 mm  
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**JEWELLERY REPORT**

Date : 12.04.2022  
 Report No : D63027612085  
 Jewel Type : Earring  
 Description : Natural Emerald  
 Shape and Cutting Style : Pear  
 CARAT WEIGHT : 12.67 CT  
 COLOR GRADE : G  
 CLARITY GRADE : VS  
 CUT GRADE : G  
 POLISH : A  
 SYMETRY : A  
 TOTAL GRAM WEIGHT : 19.70 gr  
 GOLD STANDART : 18 K

**SIDE STONES**

STONE TYPE	WEIGHT	SHAPE	COLOR GRADE	CLARITY GRADE	CUT GRADE	POLISH	SYMETRY	PCS
Natural Diamond	8.69 CT	Pear	H-I	VS				32

**COMMENTS**

ONE 18 K WHITE AND YELLOW GOLD EARRING STAMPED "750" WEIGHING IN TOTAL 19.70 GR CONTAINING 2 NATURAL EMERALDS AND 32 DIAMONDS WITH AN ESTIMATED WEIGHT OF 21.36 CT

**APPROVAL AUTHORITY**

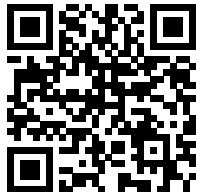
The certificate details the characteristics of the mentioned diamond that has been established by scientific measurements and observations. The exacting process of testing and identifying diamond is performed by experienced academical gemologist using the latest scientific instruments.



*M. Hatipoğlu*  
A.Prof.Dr. Murat HATIPOĞLU

Senior Staff Gemologist-Director of the Laboratory  
(Ph.D. in Mineralogy and Petrography of Geological Engineering)

This Report is provided upon request of the customer and/or the owner of the diamond. It is not a guarantee, valuation or appraisal of any kind. The Report only contains the characteristics of the diamond at the time of the examination. DGA has made no representation or warranty regarding this Report or the value of the diamond described herein. The recipient of this Report may wish to consult a credentialed jeweler or gemologist about the information contained herein.



**IMPORTANT LIMITATIONS ON BACK**