

# INTERNATIONAL GEMOLOGICAL INSTITUTE

## COLORED STONE REPORT ELECTRONIC COPY

February 4, 2022	
IGI Report Number	508135805
Species	NATURAL BERYL
Variety	EMERALD
Shape and Cutting Style	PEAR MIXED CUT
Weight	8.49 CARATS
Measurements	19.18 x 10.26 x 7.07 mm
Color and Transparency	GREEN, TRANSPARENT
Characteristics	NATURAL INCLUSION(S) PATTERN

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

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**Species & Variety** 

Transparency

**Characteristics** 

**Refractive Index** 

**Optic Character** 

Specific Gravity

biaxial.

the gemstone has been treated.

medium is known the Refractive Index.

to the density of an equal volume of water.

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Gems may be classified in different species, according to

their basic chemical composition and crystal structure; within a certain species, small differences in composition

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

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.

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

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

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

Specific gravity is the ratio of the density of the gemstone

treatments and, at times, even the geographic origin.

may result in different colors, or varieties.

Indications of moderate clarity enhancement with oil/resin



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508135805 PEAR MIXED CUT 8.49 CARATS NATURAL BERYL EMERALD

Photography is approximate



www.igi.org





# **JEWELLERY REPORT**

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DGA	DGA
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### **SIDE STONES**

STONE TYPE	WEIGHT	SHAPE	COLOR GRADE	CLARITY GRADE	CUT GRADE	POLISH	SYMETRY	PCS
Natural Diamond	0.44 CT	Round	H-I	VS				6
Natural Diamond	4.52 CT	Pear	H-I	VS				16

#### COMMENTS

ONE 18 K WHITE AND YELLOW GOLD PENDANT WITH CHAIN STAMPED "750" WEIGHING IN TOTAL 13.11 GR CONTAINING 1 NATURAL EMERALD AND 22 DIAMONDS WITH AN ESTIMATED WEIGHT OF 13.45 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.





A.Prof.Dr. Murat HATIPOGLU Senior Staff Gemologist-Director of the Laboratory (Ph.D. in Mineralogy and Petrography of Geological Engineer

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