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SIDE STONES

STONE TYPE	WEIGHT	SHAPE	COLOR GRADE	CLARITY GRADE	CUT GRADE	POLISH	SYMETRY	PCS
Natural Diamond	1.66 CT	Marquise	F-G	VS				6

COMMENTS

ONE 18 K WHITE AND YELLOW GOLD RING STAMPED "750" WEIGHING IN TOTAL 7.44 GR CONTAINING 1 NATURAL EMERALD 6 DIAMONDS WITH AN ESTIMATED WEIGH OF 1.66 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 HATIPOĞLU

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

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 represantation or warranty regarding this Report or the value of the diamond described herein. The recipient of this Report may wish to consult a credentialled jeweler or gemologist about the information contained herein.



IMPORTANT LIMITATIONS ON BACK



INTERNATIONAL GEMOLOGICAL INSTITUTE

COLORED STONE REPORT ELECTRONIC COPY

February 4, 2022	
IGI Report Number	508135796
Species	NATURAL BERYL
Variety	EMERALD
Shape and Cutting Style	OVAL MIXED CUT
Weight	4.34 CARATS
Measurements	12.67 x 10.13 x 5.13 mm
Color and Transparency	GREEN, TRANSPARENT
Characteristics	NATURAL INCLUSION(S) PATTERN

Comments: Indications of moderate clarity enhancement with Oil



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

All IGI Laboratories employ a wide range of state-of-theart 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,

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treatments and, at times, even the geographic origin.

may result in different colors, or varieties.

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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February 4, 2022 OVAL MIXED CUT 4.34 CARATS NATURAL BERYL EMERALD

Photography is approximate



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