

JEWELLERY REPORT

Date	15.06.2015	Jewel Type	Ring
Report No	D6305282164	Description	Natural Emerald
		Origin	Zambia
		Shape and Cutting Style	Oval
CARAT WEIGHT	4.34 CT	POLISH	
COLOR GRADE		SYMETRY	
CLARITY GRADE		TOTAL GRAM WEIGHT	7.44 gr
CUT GRADE		GOLD STANDART	18 K

SIDE STONES

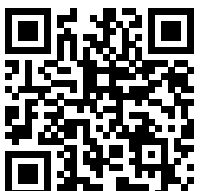
STONE TYPE	WEIGHT	SHAPE	COLOR GRADE	CLARITY GRADE	CUT GRADE	POLISH	SYMETRY	PCS
Natural Diamond	1.66 CT	Marquise	F-G	VS				6

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.



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



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



Photography is approximate

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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