



# **JEWELLERY REPORT**

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## **SIDE STONES**

STONE TYPE	WEIGHT	SHAPE	COLOR GRADE	CLARITY GRADE	CUT GRADE	POLISH	SYMETRY	PCS
Natural Diamond	0.52 CT	Round	G-H	VS				72
Natural Diamond	0.50 CT	Pear	G-H	VS				2

### COMMENTS

ONE 18 K WHITE GOLD RING STAMPED "750" WEIGHING IN TOTAL 7.75 GR CONTAINING 1 NATURAL SAPPHIRE 74 DIAMONDS WITH AN ESTIMATED WEIGH OF 1.02 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

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 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	508135795
Species	NATURAL CORUNDUM
Variety	SAPPHIRE
Shape and Cutting Style	PEAR MIXED CUT
Weight	5.43 CARATS
Measurements	11.49 x 9.31 x 6.86 mm
Color and Transparency	BLUE, TRANSPARENT
Characteristics Country of Origin	NATURAL INCLUSION(S) PATTERN. NO INDICATIONS OF TREATMENT HAVE BEEN FOUND BASED ON CURRENT
	GEMOLOGICAL INFORMATION THE GEMSTONE DESCRIBED ABOVE WOULD BE CLASSIFIED AS BEING OF "SRI LANKA" ORIGIN



OPTICAL and PHYSICAL PROPERTIES	
Refractive Index	1.762 - 1.770
Birefringence	0.008
Optic Character	UNIAXIAL
Optic Sign	-
Specific Gravity	4.00

Optical and physical properties are approximate values

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PEAR MIXED CUT 5.43 CARATS NATURAL CORUNDUM

SAPPHIRE



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.

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.

may result in different colors, or varieties.

#### **Refractive Index**

**Species & Variety** 

Transparency

**Characteristics** 

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-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, treatments and, at times, even the geographic origin.



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