



GEMMOLOGICAL REPORT

Report Number
22072002

Colour
red

Date
11 July 2022

Species
Natural corundum

Item
One faceted gemstone

Variety
Ruby

Weight
5.03 ct

Origin
Mozambique

Shape
cushion-shape

Condition
No indications of heating (NTE).

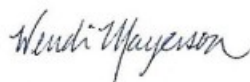
Cut
brilliant cut / step cut

Comments
See Information Sheet(s).


Measurements
11.61 x 9.15 x 5.46 mm

Important notes and limitations on the reverse.

Transparency
transparent



Wendi Mayerson



Annette Widemann-Wong



INFORMATION SHEET to Report No. 22072002

Unheated rubies

Large rubies of gem-quality are rarely found in nature. Not only is a delicate mineralogical balance essential for this red variety of corundum to be formed deep within the earth, but specific geological conditions as well as adequate pressure and temperature must also be present. Furthermore, the sufficient supply of a rare combination of chemical elements, such as aluminium and chromium, are yet another necessity required for the formation of rubies.

Over the past decades, various heating techniques, as well as the use of chemical additives, have been introduced to increase the supply of rubies resembling the high-quality untreated specimens. The aim of these treatments was and still is to improve the visual appearance of the gemstones.

Prior to the advent of modern heating techniques, rough rubies were cut and polished retaining the quality that nature had originally endowed them with. Therefore, in earlier times, rubies with obvious imperfections were considered and accepted as the norm. However, the expectations with respect to quality (colour and transparency) rose steadily.

The demand for natural, unheated rubies kept growing while the supply of such gems remains highly limited, making natural rubies of gem-quality from all major sources, such as Burma (Myanmar), Mozambique, Madagascar, Kenya, Tanzania, Vietnam, Afghanistan and Tajikistan, difficult to find.

INFORMATION SHEET to Report No. 22072002

Rubies from Mozambique

Mozambique is located in South Eastern Africa, bordered by the Indian Ocean on the East and in the North by Tanzania, Malawi and Zambia. In the West and South it is bordering Zimbabwe, South Africa and Swaziland. Mozambique is divided by the majestic Zambezi River. While the low lands to the South of the Zambezi River are mainly sedimentary, the highlands in the North are dominated by rocks belonging to the Precambrian crystalline basement, which is intersected by the famous gem-rich Mozambique Belt running North - South through East Africa.

Mozambique has always been an important source of coloured stones such as tourmaline, aquamarine and garnet. Corundum has been known in Mozambique since the Portuguese colonial times, but only since September 2008 larger amounts of rubies entered the market. These come from two new mines in the Msawizi area of Niassa Province and Montepuez in the Cabo Delgado Province.

Information Sheets are intended to provide information supplementary to the contents of the Report and comment on, for instance, the type of gemstone, the geographic origin and the presence or absence of treatments. By definition, Information Sheets are purely informational in nature; they contain neither a guarantee of the quality of the gemstones nor a recommendation to purchase or sell. The information in this sheet is current as of the date of publication. The information in this sheet is not intended to be used as a substitute for a gemological certificate, as that sheet is a certain quality standard of the stones described in the Gubelin Gem Lab Report which is not attached to it.

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GIA NATURAL DIAMOND GRADING REPORT

August 30, 2022
GIA Report Number 6372977159
Shape and Cutting Style Cushion Brilliant
Measurements 7.48 x 5.64 x 3.40 mm

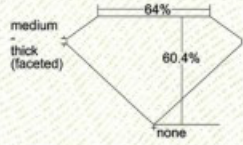
GRADING RESULTS

Carat Weight 0.91 carat
Color Grade D
Clarity Grade VVS1

ADDITIONAL GRADING INFORMATION

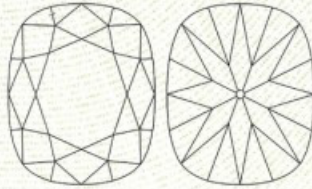
Polish Excellent
Symmetry Very Good
Fluorescence Faint

PROPORTIONS



Profile not to actual proportions

CLARITY CHARACTERISTICS



KEY TO SYMBOLS*

Feather

* Red symbols denote internal characteristics (inclusions). Green or black symbols denote external characteristics (blemishes). Diagram is an approximate representation of the diamond, and symbols show inclusion type, position, and approximate size of clarity characteristics. All clarity characteristics may not be shown. Details of facets are not shown.

GRADING SCALES

GIA COLOR SCALE		GIA CLARITY SCALE			
RETURNED TO SENDER	D	INTERNAL CHARACTERISTICS	FLAWLESS		
	E		INTERNAL FLAWLESS		
	F		EXTERNAL CHARACTERISTICS	VVS ₁	
	G			VVS ₂	
	H			INTERNAL CHARACTERISTICS	VS ₁
	I				VS ₂
	J				EXTERNAL CHARACTERISTICS
	K		S ₂		
	L		INTERNAL CHARACTERISTICS	I ₁	
	M			I ₂	
	N			EXTERNAL CHARACTERISTICS	
O	I ₄				
P	INTERNAL CHARACTERISTICS	I ₅			
Q		EXTERNAL CHARACTERISTICS	I ₆		
R			INTERNAL CHARACTERISTICS		I ₇
S				EXTERNAL CHARACTERISTICS	I ₈
T					INTERNAL CHARACTERISTICS
U	EXTERNAL CHARACTERISTICS				
V		INTERNAL CHARACTERISTICS			
W			EXTERNAL CHARACTERISTICS		
X				INTERNAL CHARACTERISTICS	
Y					EXTERNAL CHARACTERISTICS
Z	INTERNAL CHARACTERISTICS				



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GIA REPORT
2223621255

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GIA NATURAL DIAMOND GRADING REPORT

August 30, 2022
GIA Report Number 2223621255
Shape and Cutting Style Cushion Brilliant
Measurements 7.36 x 5.59 x 3.44 mm

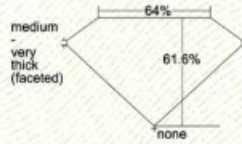
GRADING RESULTS

Carat Weight 0.97 carat
Color Grade D
Clarity Grade VVS1

ADDITIONAL GRADING INFORMATION

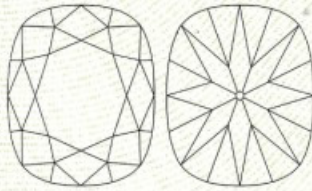
Polish Excellent
Symmetry Good
Fluorescence Faint

PROPORTIONS



Profile not to actual proportions

CLARITY CHARACTERISTICS



KEY TO SYMBOLS*

- Pinpoint
- Chip
- Feather

* Red symbols denote internal characteristics (inclusion), Green or black symbols denote external characteristics (blemish). Diagram is an approximate representation of the diamond, and symbols shown indicate type, position, and approximate size of clarity characteristics. All clarity characteristics may not be shown. Details of inclusions are not shown.

GRADING SCALES

GIA COLOR SCALE	GIA CLARITY SCALE
D	FLAWLESS
E	FLAWLESS
F	FLAWLESS
G	FLAWLESS
H	FLAWLESS
I	VVS ₁
J	VVS ₁
K	VVS ₂
L	VVS ₂
M	VVS ₂
N	VVS ₂
O	VVS ₂
P	VVS ₂
Q	VVS ₂
R	VVS ₂
S	VVS ₂
T	VVS ₂
U	VVS ₂
V	VVS ₂
W	VVS ₂
X	VVS ₂
Y	VVS ₂
Z	VVS ₂



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