



GEMMOLOGICAL REPORT

Report Number
21082068

Colour
blue

Date
20 August 2021

Species
Natural corundum

Item
One faceted gemstone

Variety
Sapphire

Weight
7.90 ct

Origin
Madagascar

Shape
cushion-shape

Condition
No indications of heating (NTE).

Cut
modified brilliant cut / step cut

Comments
See Information Sheet(s).

Measurements
11.91 x 9.64 x 7.41 mm

Important notes and limitations on the reverse.

Transparency
transparent ✓



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INFORMATION SHEET

to Report No. 21082068

Unheated sapphires

Large sapphires of gem-quality are rarely found in nature. Not only is a delicate mineralogical balance essential for this blue 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, iron and titanium, are yet another necessity required for the formation of sapphires.

Over the past decades, various heating techniques, as well as the use of chemical additives, have become increasingly sophisticated to raise the supply of sapphires 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 sapphires were cut and polished retaining the quality that nature had originally endowed them with. Therefore, in earlier times, sapphires with obvious imperfections were considered and accepted as the norm. However, the expectations with respect to quality (colour and transparency) rose steadily ever since.

The demand for natural, unheated sapphires keeps growing while the supply of such gems remains limited, making natural sapphires of gem-quality from all major sources (such as Kashmir, Burma (Myanmar), Sri Lanka, Madagascar and Tanzania) difficult to find.