



GEMMOLOGICAL REPORT

Report Number
17030056

Colour
blue

Date
21 March 2017

Species
Natural corundum

Item
One faceted gemstone set in a ring

Variety
Sapphire

Weight
12.0 ct (as indicated by the client)

Origin
Burma (Myanmar)

Shape
cushion-shape

Condition
No indications of heating (NTE).

Cut
brilliant cut / step cut

Comments
See Information Sheet(s).

Measurements
approx. 15.0 x 12.2 x 6.7 mm

Important notes and limitations on the reverse.

Transparency
transparent



Sonia Cherchi



Dr. Lore Kiefert



INFORMATION SHEET

to Report No. 17030056

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 large, natural sapphires of gem-quality from all major sources (such as Kashmir, Burma (Myanmar), Sri Lanka, Madagascar and Tanzania) difficult to find.

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 informative in nature: they consist of a standard text and are issued for all types of stones of that particular category. Information Sheets, therefore, do not imply a certain quality or rarity of the stone described in the Gübelin Gem Lab Report which it is attached to.