



## GEMMOLOGICAL REPORT

Report Number

17050048

Date

15 May 2017

Item

One faceted gemstone

Weight

5.01 ct

Shape

cushion-shape

Cut

modified brilliant cut / step cut

Measurements

10.27 x 8.91 x 5.64 mm

Transparency

transparent

Colour

blue

**Species** 

Natural corundum

Variety

Sapphire

Origin

Burma (Myanmar)

Condition

No indications of heating (NTE).

Comments

See Information Sheet(s).

Important notes and limitations on the reverse.

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## INFORMATION SHEET

to Report No. 17050048

## 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 Gibblin Gem Lab Report which it is attached to.