

Gemstone Report



No.	13067175
Date	21 June 2013
Item	One faceted gemstone
Weight	15.41 ct
Shape	octagonal
Cut	step cut
Measurements	16.17 x 13.26 x 10.18 mm
Transparency	transparent
Colour	green
Species	Natural beryl
Variety	Emerald
Origin	Gemmological testing revealed characteristics consistent with those of emeralds originating from: Zambia
Condition	No indications of clarity enhancement.
Comments	See Information Sheet(s). Important notes and limitations on the reverse.



Dr. Dietmar Schwarz



Dr. Anna Malsy



Information Sheet: Untreated emeralds

to Report No. 13067175

The formation of emeralds in nature is related to tectonic events affecting the rock in which the emerald is forming. The developing emerald experiences significant mechanical strain, resulting in fissures and fractures throughout the stone. In most cases, this process lowers the transparency of the stone, depending on the number and extent of the fractures.

By filling these fissures and fractures with a foreign substance such as oil, resin or wax, the transparency of the emerald can be enhanced. Such a clarity enhancement process is usually reversible and repeatable at any time. At the time of the analysis, the emerald described in the above mentioned Gübelin Gem Lab Report did not show any indications of clarity enhancement.