



GEMMOLOGICAL REPORT

image is approximate

Date 09-Jan-20
 Report number R-202024064
 Weight 4.971 carats
 Measurements 9.59 x 9.33 x 6.38 mm
 Shape Cushion
 Identification Natural Cobalt Spinel
 Colour Blue

Comment : No Indication of any treatment

Origin determination: Ceylon (Sri Lanka)
 Sri Lanka spinels were formed some 550 million years ago

Dr. D. Schwarz

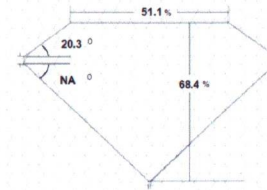


M.P.H. Curti, GG

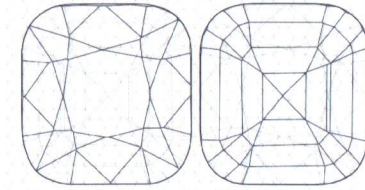
GEMMOLOGICAL PROPERTIES

The data collected on your item is valid at the issuance date of this report

Actual cut of your gemstone



Profile not to actual proportions

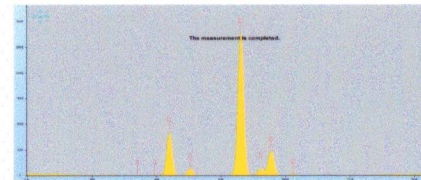


Crown

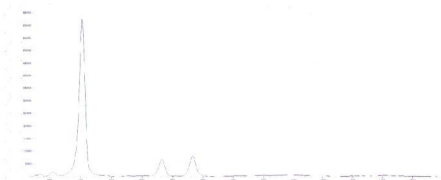
Pavillion

Length	9.59	Width	9.33	Height	6.38
Ratio	1.03	Crown Angle	20.3	Pavillion Angle	NA

Energy-dispersive X-ray fluorescence spectroscopy



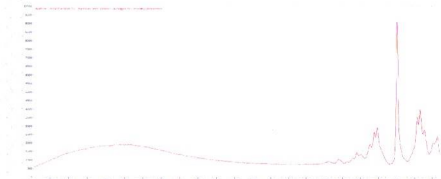
Raman Spectroscopy



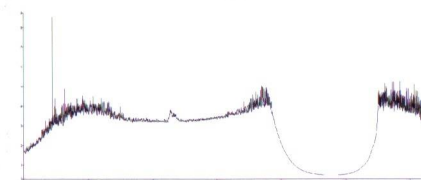
Fourier-transform infrared spectroscopy (T%)



Photoluminescence



Fourier-transform infrared spectroscopy (A)



Ultraviolet-visible spectroscopy



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