



ELECTRONIC COPY

LABORATORY GROWN DIAMOND REPORT

October 26, 2024	
IGI Report Number	LG662437367
Description	LABORATORY GROWN DIAMOND
Shape and Cutting Style	EMERALD CUT
Measurements	8.12 X 5.50 X 3.54 MM

GRADING RESULTS

Carat Weight	1.51 CARAT
Color Grade	G
Clarity Grade	VS 2

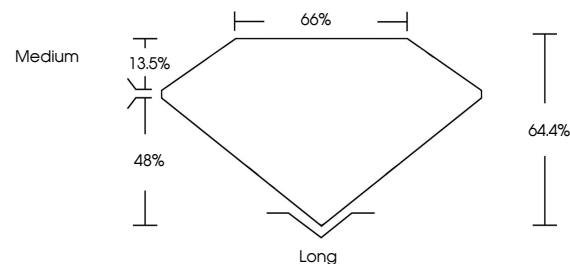
ADDITIONAL GRADING INFORMATION

Polish	EXCELLENT
Symmetry	EXCELLENT
Fluorescence	NONE
Inscription(s)	15 LG662437367

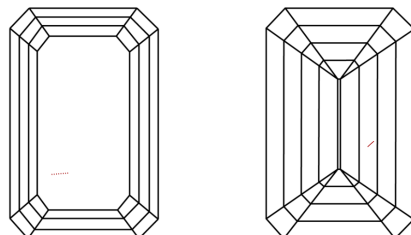
Comments: This Laboratory Grown Diamond was created by Chemical Vapor Deposition (CVD) growth process.
Type IIa

LG662437367
Report verification at lgi.org

PROPORTIONS

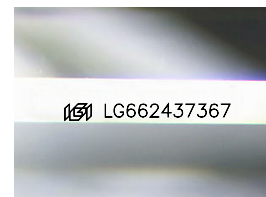


CLARITY CHARACTERISTICS



KEY TO SYMBOLS

Red symbols indicate internal characteristics.
Green symbols indicate external characteristics.



Sample Image Used

COLOR

D E F G H I J Faint Very Light Light

CLARITY

IF	VS ¹⁻²	VS ¹⁻²	SI ¹⁻²	I ¹⁻³
Internally Flawless	Very Very Slightly Included	Very Slightly Included	Slightly Included	Included

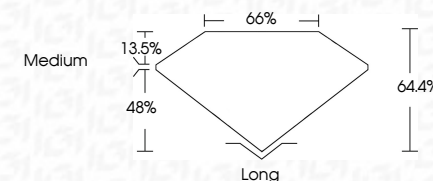
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October 26, 2024
 IGI Report No LG662437367
 EMERALD CITT

1.51 CARAT	G
VS 2	64-6%
60%	Medium
Long	EXCELLENT
EXCELLENT	NONE
None	Color
Color	Fluorescence
Fluorescence	Polish
Polish	Symmetry
Symmetry	Cutlet
Cutlet	Carat Weight
Carat Weight	Color Grade
Color Grade	Clarity Grade
Clarity Grade	Depth
Depth	Table
Table	Grade
Grade	Weight
Weight	Shape
Shape	Size
Size	Length
Length	Breadth
Breadth	Thickness
Thickness	Volume
Volume	Density
Density	Refractive Index
Refractive Index	Birefringence
Birefringence	Optical Characteristic
Optical Characteristic	Crystal System
Crystal System	Lattice Parameters
Lattice Parameters	Space Group
Space Group	Mohs Hardness
Mohs Hardness	Knoop Hardness
Knoop Hardness	Vickers Hardness
Vickers Hardness	Rockwell Hardness
Rockwell Hardness	Brinell Hardness
Brinell Hardness	Tensile Strength
Tensile Strength	Elongation at Break
Elongation at Break	Modulus of Elasticity
Modulus of Elasticity	Poisson's Ratio
Poisson's Ratio	Yield Strength
Yield Strength	Compression Strength
Compression Strength	Impact Resistance
Impact Resistance	Wear Resistance
Wear Resistance	Corrosion Resistance
Corrosion Resistance	Thermal Stability
Thermal Stability	Thermal Expansion Coefficient
Thermal Expansion Coefficient	Thermal Conductivity
Thermal Conductivity	Electrical Resistivity
Electrical Resistivity	Dielectric Constant
Dielectric Constant	Loss Tangent
Loss Tangent	Volume Resistivity
Volume Resistivity	Surface Resistivity
Surface Resistivity	Static Charge Dissipation
Static Charge Dissipation	Electrostatic Discharge Protection
Electrostatic Discharge Protection	Electromagnetic Interference Shielding
Electromagnetic Interference Shielding	Radiation Resistance
Radiation Resistance	Ozone Resistance
Ozone Resistance	UV Radiation Resistance
UV Radiation Resistance	Mechanical Fatigue Life
Mechanical Fatigue Life	Creep Resistance
Creep Resistance	Stress Relaxation
Stress Relaxation	Hysteresis Loss
Hysteresis Loss	Dynamic Mechanical Analysis
Dynamic Mechanical Analysis	Thermochemical Analysis
Thermochemical Analysis	Thermogravimetric Analysis
Thermogravimetric Analysis	Differential Scanning Calorimetry
Differential Scanning Calorimetry	Mass Spectrometry
Mass Spectrometry	Infrared Spectroscopy
Infrared Spectroscopy	Raman Spectroscopy
Raman Spectroscopy	X-ray Fluorescence
X-ray Fluorescence	Scanning Electron Microscopy
Scanning Electron Microscopy	Atomic Force Microscopy
Atomic Force Microscopy	Transmission Electron Microscopy
Transmission Electron Microscopy	Neutron Activation Analysis
Neutron Activation Analysis	Inductively Coupled Plasma Atomic Emission Spectroscopy
Inductively Coupled Plasma Atomic Emission Spectroscopy	Gas Chromatography-Mass Spectrometry
Gas Chromatography-Mass Spectrometry	High Performance Liquid Chromatography
High Performance Liquid Chromatography	Thin Layer Chromatography
Thin Layer Chromatography	Size Exclusion Chromatography
Size Exclusion Chromatography	Ion Exchange Chromatography
Ion Exchange Chromatography	Affinity Chromatography
Affinity Chromatography	Reverse Phase Chromatography
Reverse Phase Chromatography	Normal Phase Chromatography
Normal Phase Chromatography	Preparative Scale Chromatography
Preparative Scale Chromatography	Analytical Scale Chromatography
Analytical Scale Chromatography	Microscale Chromatography
Microscale Chromatography	Flow Injection Analysis
Flow Injection Analysis	Chemiluminescence
Chemiluminescence	Bioluminescence
Bioluminescence	Photoluminescence
Photoluminescence	Cathodoluminescence
Cathodoluminescence	Electroluminescence
Electroluminescence	Thermoluminescence
Thermoluminescence	Optically Stimulated Luminescence
Optically Stimulated Luminescence	Acousto-optic Modulation
Acousto-optic Modulation	Magneto-optic Modulation
Magneto-optic Modulation	Electro-optic Modulation
Electro-optic Modulation	Photoacoustic Modulation
Photoacoustic Modulation	Thermoacoustic Modulation
Thermoacoustic Modulation	Acoustothermal Modulation
Acoustothermal Modulation	Magnetothermal Modulation
Magnetothermal Modulation	Electrothermal Modulation
Electrothermal Modulation	Photothermal Modulation
Photothermal Modulation	Chemothermal Modulation
Chemothermal Modulation	Biothermal Modulation
Biothermal Modulation	Photobiological Modulation
Photobiological Modulation	Chemobiological Modulation
Chemobiological Modulation	Biobiochemical Modulation
Biobiochemical Modulation	Biophysical Modulation
Biophysical Modulation	Biomechanical Modulation
Biomechanical Modulation	Biomedical Modulation
Biomedical Modulation	Biotechnology Modulation
Biotechnology Modulation	Environmental Modulation
Environmental Modulation	Industrial Modulation
Industrial Modulation	Commercial Modulation
Commercial Modulation	Consumer Modulation
Consumer Modulation	Government Modulation
Government Modulation	International Modulation

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