



# EMERALD

**SHOP LC**  
GEMSTONE WORKSHOPS  
Explore More with Us!

# Today's Presentation Covers

# EMERALD

COLOMBIAN  
EMERALD

ETHIOPIAN  
**EMERALD**



# HISTORY OF EMERALD

The vibrant green stone is one of the jewelry's most beautiful and popular gemstones.

An ancient stone, the oldest emeralds are about 2.97 billion years old.

The first record of emeralds being mined was in Egypt around 1500 BC.

*Source: Google Research*



# EMERALD: A GIFT FROM MOTHER EARTH

One of the only 4  
precious gemstones on  
the planet.

Also known as green  
regime of highly  
precious gem world.

Truly an heirloom  
gemstone for centuries  
now.

It was befitted in the crown of Kings &  
necklaces of queens since the Mogul  
era of 14th century.

Bringing you the privilege of owning  
most beautiful gift from the Mother  
Earth.



**COLOR RESEMBLANCE IN  
NATURE**



# BIRTHSTONES & ANNIVERSARIES

As the gem of spring, emerald is the perfect choice as the birthstone for the month of May.

Gem of the 12<sup>th</sup> & 35<sup>th</sup> wedding anniversaries.



## DISCOVERY OF ZAMBIAN EMERALDS

- Zambian Emeralds first discovered in 1928.
- The deposits are located near the Kafubu River in the Ndola Rural Restricted Area.
- Initial investigations did not reveal good quality gems.
- Exploratory work was continued in the 1940s and 1950s.
- During 1970s, local miners discovered several more deposits.
- Kafubu area became major producer of good quality emeralds.
- Emerald deposits are now distributed over the area of 200 km<sup>2</sup>.
- Zambia is considered the world's second most important source of emeralds by value.

## REASON TO BE IN GLOBAL SPOTLIGHT

Zambian emeralds have become increasingly popular in recent years.

One reason for their popularity is their high quality & unique appearance.

Because of lower incidence of “eye-visible inclusions” – great level of clarity.

Due to clarity, reflect light much better, enhancing their color & make more appealing.



# ABOUT THE RARITY

Kagem is world's single largest emerald mine.

Gemfields is the only company which has access to the mined rough directly.

The company then auction the procured rough to the vendors.

Prices are increasing each day.

8x6mm and below sizes available in market.

Above 8x6mm, bulk not available.

Price as high as \$10,000 per carat.

Industry turning to lab-created stones.

Stones have color, clarity variation.



## MINING LOCATION

- Shop LC sources our supply from the Kagem Mines of Zambia.
- Kagem - world's single largest emerald mine.
- In southern part, Copperbelt Province, south of Kitwe.

# ABOUT COLOR

- It has green hue with bluish tinge.
- The presence of chromium lends a bright green color.
- Iron, vanadium give blue hints.
- Transparent-translucent stone.
- Displays many shades.
- Wide color range makes sorting challenging.

*Source: Google Research*





# ABOUT THE CUT

GIA – Emerald is difficult to cut.

Has significant fractures & brittle nature.

Also has hexagonal crystal structure.

Cutter must maximize effect of hue, tone & saturation.

Can be cut in different shapes.

Most popular: square or emerald cut.

These maximize shape and weight of crystal.

Takes about 1 hour to facet 8-10 gems from just one side.

# NATURAL OR TREATED?

Emeralds are majorly oil treated.

Emeralds by nature contain huge number of fractures.

To improve their color and clarity, emeralds undergo oiling.

Emeralds are filled with colorless oils.

These further fill the fractures.

# PROCUREMENT INFORMATION



Shop LC  
procured  
finished  
emerald from  
local market.

We have  
procured  
required  
quantity from  
single vendor.

Due to our  
goodwill, we  
were able to  
sort out best  
gems from  
vendor's lot.



# GEM FACTS

Member of Beryl family.

GIA- 'Zambia' world's 2nd important emerald source by value (after Colombia).

Official gem of North Carolina since 1973.

Color: Vibrant green

Refractive Index: 1.577 to 1.583

Mohs Hardness: 7.5 to 8

# GEM LORE

Said to stimulate heart  
chakra.

Said to symbol of love,  
loyalty & new  
beginnings.

Said to represents peace,  
prosperity & security.

Said to stone of wisdom.



# COLOMBIAN EMERALD





# HOW DOES COLOMBIAN EMERALD COMPARE TO OTHER EMERALD STONES?

- Colombian emeralds are globally famous for their quality.
- Generally, the most expensive per carat.
- Comparatively, price of F1 Colombian emerald is equivalent to F3 Zambian emerald.
- Each mining location worldwide produces a different color variation of emerald.
- The leafy green shade is unmatched with the gradient of green available in other emeralds.



**ETHIOPIAN  
EMERALD**



**COLOMBIAN  
EMERALD**



**KAGEM ZAMBIAN  
EMERALD**



# CLARITY OF COLOMBIAN EMERALDS

Eye-clean emeralds are especially valuable.

Emeralds that have no eye-visible inclusions are very rare.

Typically contains inclusions that are visible to the unaided eye.

Usually displays jagged or fluid inclusions.

# ARE COLOMBIAN EMERALDS TREATED?

Emeralds are majorly oil treated.

By nature, they contain huge number of fractures.

To improve their color and clarity, emeralds undergo oiling.

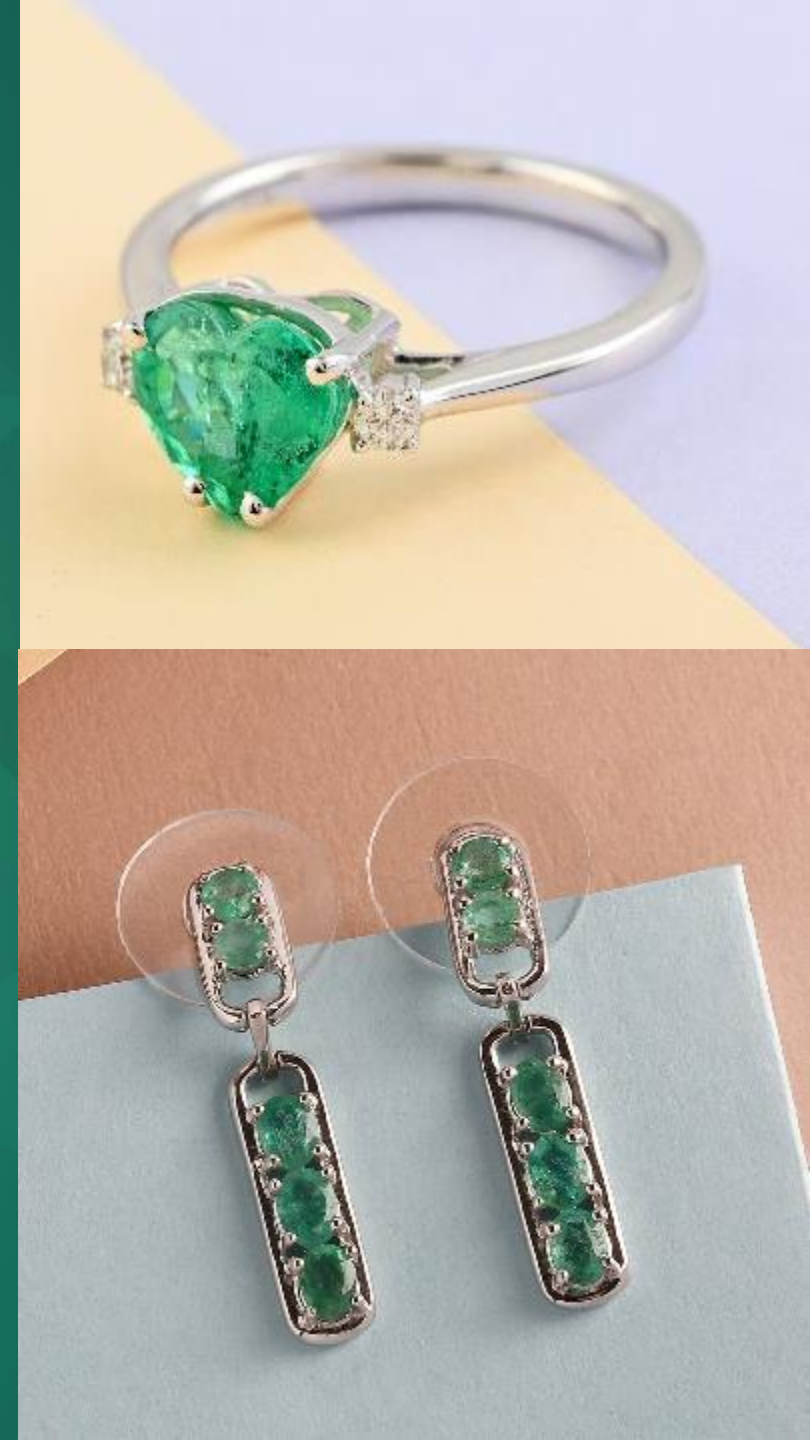
Emeralds are filled with colorless oils.

These further fill the fractures.



# WHY HAVE WE PURCHASED FINISHED GEMS?

- Rough for Colombian Emerald is scarce.
- Not easily available with many vendors.
- Procured finished gems for the event.
- To offer best shape and color of emerald, it is usually locally cut in Colombia.
- Then re-cut in desired shapes after being purchased.



# COLOMBIAN EMERALD IN FLASHBACK



Formed between 40 and 65 million years ago.

Colombian emeralds were mined by the indigenous people of what is today, Boyacá Province.

Experts estimate that natives were mining and trading Colombian emerald as early as 1000 BC.

Emeralds were among the first gemstones mined in the world.

Colombia is home to the largest source of emeralds worldwide.

Yield a finer variety than other emerald mines across the globe.

Colombian variety grabs the top position for transparency, crystallization and fire.



# GEM FACTS

Ranks 7.5-8 on  
Mohs Scale of  
Hardness.

Official birthstone  
for May.

Displays leafy  
bluish green color.

Mined in  
Colombia.

Undergoes oil  
treatment.

Gift for 20th and  
35th wedding  
anniversary.



# GEM LORE

Symbol of love,  
loyalty, new  
beginnings.

Represents peace,  
prosperity, and  
security.

Stone of wisdom.

Wearing it is said  
to enhance  
intellect and  
wisdom.

Dispels negative  
thoughts from  
mind.

Green color invites  
happiness and luck  
in wearer's life.

Strengthens wearer's luck  
and sails them through  
tough times





# ETHIOPIAN EMERALD



# ETHIOPIAN EMERALD

## A NEW STAR IS BORN

- Discovered in August 2016.
- Comparable to those mined in Colombia.
- Had set the gem world afire.
- Located in central part of Ethiopia.
- Sits in the northern section of richest Precambrian belt.
- Formed some 650 million years ago.





# COLOR REMINISCENT OF BEAUTY OF NATURE



## ETHIOPIAN EMERALDS:

### A New Addition To The Market Worth Exploring

- Emeralds: History's most ancient treasure.
- Rarer and often more expensive than diamonds.
- Ethiopian emeralds are known for their unique grass-green color.
- Relatively a new addition to the market.
- Less expensive than emeralds from other locations.
- Hence, a more affordable options.
- With increasing popularity, sure to see a jump in price.

*Source: Google Research*





# HOW IS IT DIFFERENT FROM OTHER EMERALDS?

- Colombian emerald displays intense, pure green color & Zambian emeralds displays darker shade of green.
- Whereas Ethiopian emeralds are known for their lighter green shade.
- Colombian emeralds tend to be high in chromium and vanadium, but low in iron.
- Emeralds from Ethiopia have less chromium and vanadium, relatively high iron content.
- Ethiopian emeralds are less expensive than its Brazilian and Zambian counterparts.



COLOMBIAN EMERALD



ZAMBIAN EMERALD



ETHIOPIAN EMERALD

- Ethiopian Emeralds are from Sebo Boru District, Ethiopia.







# ETHIOPIAN **EMERALD**

## **MINING**

- Various emeralds mined in Colombia, Madagascar, Canada, Zambia, and Brazil
  - Mine production is sporadic.
  - Only accessible 5 - 6 months a year, due to dangerous flooding during rainy season.
  - Buying activity is closely restricted by government.
- There's no knowing how long supply will last.



# **ETHIOPIAN EMERALD MINES**



# 4Cs of Emerald

## COLOR

Displays bluish green to pure green emerald.

## CUT

Must consider the depth of color, durability and inclusions when cutting.

## CLARITY

Most prized emeralds are highly transparent.

## CARAT WEIGHT

Comes in wide range of sizes.

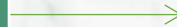
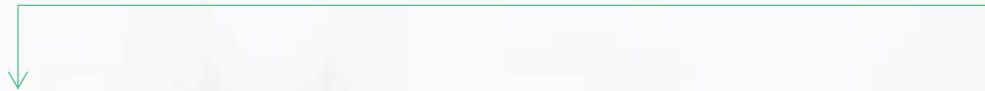
## PROCUREMENT DETAILS

Ethiopian emerald  
not available with  
multitude of  
vendors.

Only few selected  
vendors offer.

Procured 2-3000 ct  
finished emerald.

Procured at  
attractive prices.



# A GLANCE AT HISTORY OF EMERALDS

## Ancient Egypt

- The first recorded use dates to ancient Egypt.
- Mined near the Red Sea.

## Ancient Rome

- Also prized emeralds.
- Emperor Nero watched gladiator fights through a pair of emerald lenses.

## Spanish Conquest

- Spanish conquistadors encountered large deposits of emeralds in Colombia in 16th century.

## Mughal Empire

- Famous Mughal emperor Shah Jahan had a throne made entirely of emeralds.

1.



## ETHIOPIAN EMERALD RARE SPECIMENS!

1. 408.08 ct Ethiopian Emerald at Smithsonian Museum.
2. 95 ct Ethiopian emerald.
3. Largest rough crystal: 63.12 g, largest faceted: 10.64 ct.

2.



3.





# EMERALDS IN HISTORY

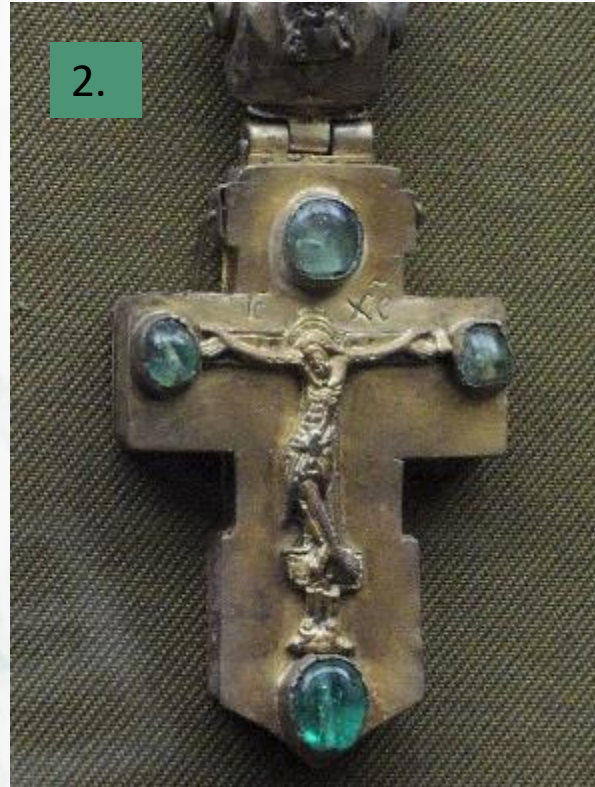
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1. 330-300 BCE ancient Greek emerald ring from Hellenistic period.
2. Cross-reliquary, silver and emeralds, 16-17th centuries CE.
3. Miner on top of milky quartz block full of emeralds 43.75 cm tall.

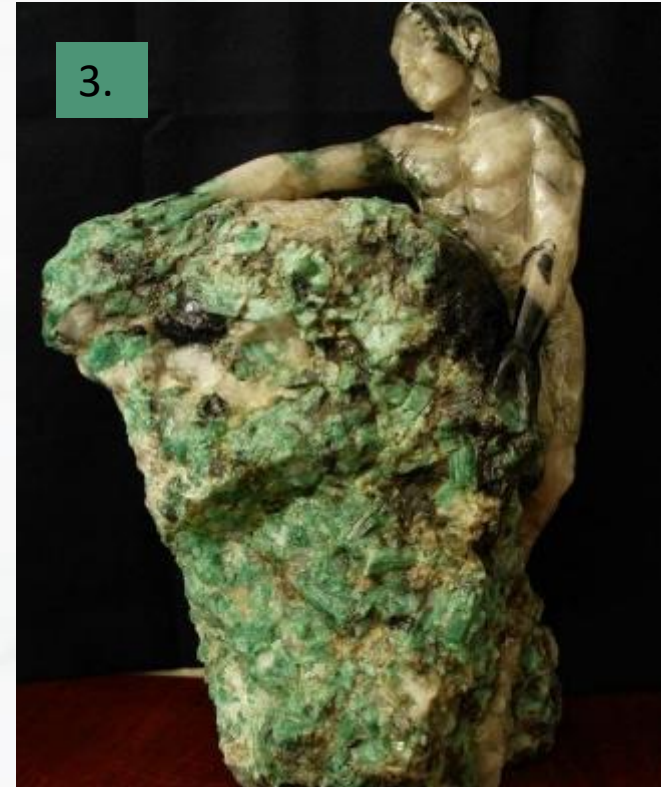
1.



2.



3.



## PRODUCT COLLECTION



Item: 8932503 | **\$239.99**

5.0



Item: 4136621 | **\$119.99**

4.5



Item: 4140831 | **\$149.99**

5.0



Item: 7302048 | **\$639.99**

4.5



Item: 8942109 | **\$699.99**

5.0



Item: 7485853 | **\$899.99**

5.0



# GEM FACTS

- Ranks 7.5-8 on Mohs Scale of Hardness.
- Displays pleasant green color with bluish tinge.
- Mined near Shakiso Area, Ethiopia.
- Majorly Oil Treated.
- Birthstone of May.
- Gemstone for 20 & 35 wedding anniversaries.



# GEM LORE

Said to stimulate  
heart chakra.

Symbol of love,  
loyalty & new  
beginnings.

Said to represents  
peace, prosperity  
& security.

Said to dispel  
negative thoughts.

Said to be a stone  
of wisdom.

Said to enhance  
intellect &  
wisdom.

Green color  
invites happiness  
and luck.





THANK YOU