Gemological Science INTERNATIONAL

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FGX FULL GEMSTONE EXAMINATION

November 18, 2025

Report # 73579080102

Item: Loose Stone
Weight: 14.99 ct(s)
Shape/Cut: Oval Mixed
Measurements: 18.51 x 14.00 x 6.12 mm

Color: Red
Transparency: Transparent

Description: One Loose Natural Ruby described in detail.

Conclusion

Species: Corundum
Variety: Natural Ruby

Comments: Specimen enhanced by heat - Moderate (TE4) amount of residues are present in fissures.

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Gemologist

Verify your report

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GSI Gemstone Report Disclosures

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Enhancement (E): Many colored gemstones routinely undergo enhancement to improve their appearance. (E) is abbreviation for enhancement and is used to describe any process applied to a gemstone in addition to cutting and polishing.

Heat treatment often referred as **"thermal enhancement" (TE)** and is commonly applied to many gemstones, but most commonly corundum(rubies and sapphires), often used to improve color and/or transparency (clarity). TE in rubies and sapphires is often stable and permanent under normal wear and handling conditions, and it is generally accepted by the international gem and jewelry trade. However, it must be disclosed clearly prior to the point of sale.

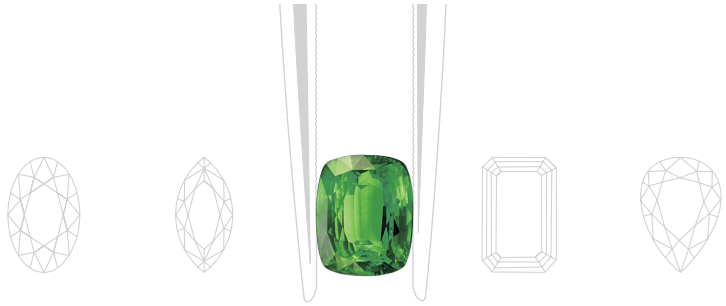
The terminology used in GSI reports is fully compliant with the nomenclature standards defined by the Laboratory Manual Harmonization Committee **(LMHC), CIBJO,** and/or the **FTC Guidelines**.

The comment section of the report indicates if/or any presence or absence of indications of TE in rubies and sapphires with additional disclosure if/any when solid residues, representing by-products of the TE are detected in their fissures and/or cavities.

High heat diffusion treatments such as **lattice diffusion (LD) or beryllium diffusion (BD)**, indicate heating along with introduction/diffusion of a chemical element other than hydrogen from an external source, with the intention of modifying the color).

The term **"residue"** is used by GSI to describe any remnants or by-products of the TE/LD/BD process(es).

Clarity enhancement using natural or artificial oil/resin (FF) in gemstones including beryl or corundum and is disclosed on GSI reports if the fissures are filled to an extent that it affects the clarity.



When and if fillers are absent **(None)** or below detectable amount **(Insignificant)** is disclosed.

Clarity enhancement by filling fissures with Lead Glass (GF) or Bismuth (Bi) along with thermal enhancement in any corundum is disclosed on GSI reports.

High-energy Irradiation (IR): exposing gems to high energy irradiation to alter appearance or color, if/any/when detected will be disclosed.

GSI applies the following terms to disclose the presence or absence of indications of treatment (heat/fracture filling/diffusion), to grade the relative quantity of residue in fissures/cavities and treatments on other gemstones.

NTE / NE	**No Indications of Thermal Enhancement / No indication of enhancement.**
TE (1-2/3-4/5)	**Thermal Enhancement (Minor/Moderate/Significant)**
F1- F2 - F3	**Clarity Enhancement with oil or resin (Insignificant/Minor/Moderate/Significant) in Fissures or Fractures**
F1-Pb / F2-Pb / F3-Pb F1- Bi / F2- Bi / F3- Bi	**Clarity Enhancement with lead glass (Pb) Clarity Enhancement with Bismuth (Bi) (Insignificant/Minor/Moderate/Significant) in Fissures or Fractures (F)**
C1 / C2 / C3	**Clarity Enhancement with residues in Cavities**
LD / BD	**Clarity enhancement with color induced by (Lattice / Beryllium) diffusion of chemical elements from an external source**
B	**Bleaching**
C	**Coating**
D	**Dyeing**
E	**Enhancement**
F	**Fracture / Fissure Filling**
GF	**Glass Filling**
I	Impregnation
IR	Irradiation
O	Oiling
W	Waxing

1-5 numeric value assesses only the extent (i.e. size, number and position) of the healed fractures or cavities and the residue that may be present in healed or filled fractures or cavities of a thermally enhanced gemstone, relative to the size of the gemstone. This system is not a classification of quality.

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