



GIA REPORT
2534570718

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GIA NATURAL DIAMOND GRADING REPORT

October 29, 2025
 GIA Report Number 2534570718
 Shape and Cutting Style Oval Brilliant
 Measurements 14.51 x 10.19 x 6.36 mm

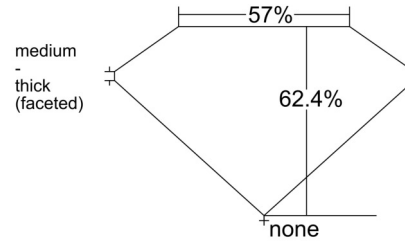
GRADING RESULTS

Carat Weight 6.05 carat
 Color Grade D
 Clarity Grade Flawless

ADDITIONAL GRADING INFORMATION

Polish Excellent
 Symmetry Excellent
 Fluorescence None
 Inscription(s): GIA 2534570718

PROPORTIONS



Profile not to actual proportions

CLARITY CHARACTERISTICS



GRADING SCALES

GIA COLOR SCALE		GIA CLARITY SCALE	
COLOURLESS	D	NEAR COLOURLESS	FLAWLESS
	E		INTERNALLY FLAWLESS
	F		VERY VERY SLIGHTLY INCLUDED
G	VVS ₂		
H	VERY SLIGHTLY INCLUDED		
I			VS ₂
J		SLIGHTLY INCLUDED	SI ₁
K	SI ₂		
L	INCLUDED		I ₁
M		I ₂	
N		I ₃	
FAINT	O		
	P		
	Q		
VERY LIGHT	R		
	S		
	T		
	U		
	V		
LIGHT	W		
	X		
	Y		
	Z		



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DIAMOND TYPE CLASSIFICATION FOR GIA DIAMOND GRADING REPORT #2534570718

Scientists classify diamonds into two main "types" - type I and type II - based on the presence or absence of nitrogen, which can replace carbon atoms in a diamond's atomic structure. These two diamond types can be distinguished on the basis of differences in their chemical and physical properties. Type I diamonds contain detectable amounts of nitrogen in infrared absorption spectroscopy and they are subdivided into four groups (Ib, IaA, IaAB, and IaB), depending upon the aggregation states of nitrogen in the diamond.



According to the records of the GIA Laboratory, the 6.05 carat Oval Brilliant diamond described in GIA Diamond Grading Report #2534570718 has been determined to be a **type IaB** diamond. Type IaB diamonds are a very rare variety, accounting for less than 1% of all gem diamonds. Nitrogen concentrations in type IaB diamonds are generally low relative to other type I diamond varieties, and their nitrogen is fully aggregated to form B centers, which are groups of four nitrogen atoms surrounding a vacancy. Based on scientific studies of diamonds and their mineral inclusions, it is likely that many type IaB diamonds originate from deeper in the earth's mantle compared to most other gem diamonds. The very high temperature in the deep mantle is thought to facilitate nitrogen aggregation and develop type IaB diamonds.

The 812.77 carat rough diamond, named the Constellation, from the Karowe Mine in Botswana is a good example of notable type IaB diamond.

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