Good Old Gold's
The Ultimate Diamond Information Site's
Exclusive 29 Point Diamond Inspection

Clarity:

1. Inspection and confirmation of clarity grade.
2. Professional photomicrographs demonstrating primary grading inclusions from 10x - 64x under Leica gemological microscope with dark-field illumination.
3. Inspection for surface breaking inclusions and confirmation of healed or open feathers reaching the surface. (We eliminate open feathers from our purchasing).
4. Inspection for internal graining and strain.*
5. Inspection for graining or fluorescence impacting diamond transparency.

Color:

6. Analysis next to master comparison stones under GIA official lighting for color grading.
7. Colorimeter Analysis (digital color testing for diamonds).
8. Inspection and confirmation of fluorescence.

Carat Weight:

9. Confirmation of actual diamond weight via use of digital balance down to $1/1000^{th}$ of a carat.
10. Further confirmation with estimated weight via Sarin/Helium Scan.

Cut:

11. Weight ratio/ Spread: Determination that the diamond doesn't look too small for its weight.
12. Durability/Proportion factors: Considering how things like girdles that are too thin are prone to chipping. Especially when combined with certain shallow angled diamonds, culet size, etc.
13. External Polishing or finish.
14. External or traditional Symmetry grading characteristics.
15. Exclusive Optical Symmetry Grading on every round diamond in our inventory. Optical symmetry specifically addresses issues of craftsmanship not covered in GIA or AGS lab reports.
16. Inspection and analysis of girdle cutting. Ie. Painting and Digging. We have studied and are familiar with the degrees of these features that take the hits in both GIA and AGS systems.
17. Full Sarin Analysis including 3D modeling via Sarin plus all the various reports provided in the Sarin Viewer (7 Reports in all plus individual reports for fancy shapes).
18. Helium Scan and Report results. Helium Scans provided the most accurate and detailed facet by facet analysis of a diamond that is possible and produce the most accurate 3 dimensional models possible. We are the only lab that possesses the Helium Scanner besides GIA and AGS in this country.

19. Gem Advisor File. The models generated with the Helium (and Sarin over 2ct) are imported into Octonus' Gem Advisor software which can be viewed via our site which shows how the diamond appears in diffuse day lighting (office light view), spot lighting (disco light view), hemisphere lighting (our own addition), plus various scope views including but not limited to …
20. IdealScope™ Analysis. The IdealScope™ shows how the facets within a diamond are functioning (as either reflectors or non-reflectors of light).
21. DiamXray™ Analysis. DiamXray™ is akin to IdealScope analysis except that our DiamXray photography system is a photograph of the actual diamond itself in this scope and is not based on a scan. DiamXray™ photography is also more detailed than actual IdealScope™ photography and allows us to see the critical results of light return, light leakage and intensity.
22. ASET™ Analysis. American Gem Society Advanced Instruments Division recently released their own multi-colored reflector called the Angular Spectrum Evaluation Tool (ASET) which not only shows whether facets are functioning as reflectors or non-reflectors but also demonstrates where a diamond is drawing its light from within the angular spectrum. A very valuable analysis once understood (and not hard to understand at all).
23. Actual Hearts & Arrows images of diamonds cut to this level of precision (both round and square varieties).
24. GIA FacetWare™ Results on each round brilliant cut in our inventory.
25. AGS Performance Grading Software™ results on each round brilliant cut AND princess cut diamond in our inventory.
26. GemEx BrillianceScope™ Results. Light performance testing in direct lighting environments for
    a. white light return
    b. colored light return &
    c. scintillation.
27. Isee2™ Light Performance Analysis (limited to rounds). Digital Light performance testing in diffuse lighting environments for
    a. Brilliance/brightness
    b. Optical Symmetry
    c. Scintillation comprised of
        i. Dynamic contrast
        ii. Dynamic fire
28. Scan & inspection of original Lab Report for the diamond.
29. GIA DiamondDock™: Visual inspection for brightness, fire and scintillation in GIA's official lighting environment for cut grading and determination (all shapes).

Also all the photography, scans and reports you see on that diamonds web page are included in a printed Appraisal Report for your own protection. Insurance companies are only obligated to replace what is described in the Appraisal Report and while we encourage our clients to get professional 2nd opinions on the diamond they purchase, we suggest they submit ours to their insurance company as it is generally the most detailed and this for your own protection.