## General information

Model
Expert name
Report date
Real weight，ct
Calculated weight，ct
Appraiser title
Overall cut quality
Symmetry appraiser title
Overall symmetry quality
Spread
Girdle to MIC
EF／Nat

Simple
Makoed A．G．
17．01．2007
1．32， 1.3254
AGS 2005
1
Internal
VG
-0.07 ct，$-5.68 \%$
0.005 mm

No


Main parameters

| Parameter |  | Avg | Min | Max | Dev | Cut | Sym |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Diameter | mm | 6.960 | 6.942 | 6.972 | 0.43 \％ | N／A | EX |
| Crown angle | － | 35.26 | 35.00 | 35.57 | 0.57 | Grading | EX |
| Crown height | \％ | 15.87 | 15.72 | 16.10 | 0.37 | N／A | EX |
| Crown height | mm | 1.105 | 1.094 | 1.120 | 0.026 |  |  |
| Crown height at girdle minima | \％ | N／A | N／A | N／A | N／A | N／A | N／A |
| Crown height at girdle minima | mm | N／A | N／A | N／A | N／A |  |  |
| Pavilion angle | － | 40.75 | 40.17 | 41.35 | 1.17 | Grading | VG |
| Pavilion depth | \％ | 42.79 | 42.54 | 43.03 | 0.48 | N／A | EX |
| Pavilion depth | mm | 2.978 | 2.961 | 2.995 | 0.034 |  |  |
| Pavilion depth at girdle minima | \％ | 43.62 | 43.33 | 43.95 | 0.62 | N／A | EX |
| Pavilion depth at girdle minima | mm | 3.036 | 3.016 | 3.059 | 0.043 |  |  |
| Upper girdle facets angle | 。 | N／A | N／A | N／A | N／A |  | N／A |
| Upper girdle facets height | \％ | N／A | N／A | N／A | N／A |  | N／A |
| Upper girdle facets height | mm | N／A | N／A | N／A | N／A |  |  |
| Star facets angle | 。 | N／A | N／A | N／A | N／A |  | N／A |
| Star： Upper ratio | \％ | $\begin{aligned} & \text { N/A: } \\ & \text { N/A } \end{aligned}$ | $\begin{aligned} & \text { N/A: } \\ & \text { N/A } \end{aligned}$ | $\begin{aligned} & \text { N/A: } \\ & \text { N/A } \end{aligned}$ | N／A | N／A | N／A |
| Lower girdle facets angle | － | 41.82 | 41.24 | 42.47 | 1.23 |  | VG |
| Lower girdle facets height | \％ | 35.59 | 35.29 | 36.09 | 0.80 | N／A | EX |
| Lower girdle facets height | mm | 2.477 | 2.456 | 2.512 | 0.056 |  |  |
| Depth Girdle Facet | \％ | 80.79 | 79.91 | 81.81 | 1.91 |  |  |
| Length Girdle Facet | \％ | 79.21 | 78.30 | 80.25 | 1.96 |  |  |
| Total height | \％ | 62.62 |  |  |  | N／A |  |
| Total height | mm | 4.359 |  |  |  |  |  |
| Table | \％ | 55.39 | 55.19 | 55.65 | 0.46 | Grading | EX |
| Table | mm | 3.855 | 3.841 | 3.873 | 0.032 |  |  |
| Culet | \％ | 0.62 | 0.54 | 0.66 | 0.12 | 0 | EX |
| Culet | mm | 0.043 | 0.038 | 0.046 | 0.008 |  |  |
| Twist | 。 | 0.74 | 0.36 | 1.23 | 0.88 |  | EX |
| Girdle thickness：Bezel | \％ | 3.89 | 3.58 | 4.12 | 0.53 | 0 | EX |
| Girdle thickness：Bezel | mm | 0.271 | 0.249 | 0.286 | 0.037 |  |  |
| Girdle thickness：Bone | \％ | N／A | N／A | N／A | N／A |  | N／A |
| Girdle thickness：Bone | mm | N／A | N／A | N／A | N／A |  |  |
| Girdle thickness：Valley | \％ | 3.61 | 2.73 | 4.23 | 1.49 | 0 | VG |
| Girdle thickness：Valley | mm | 0.251 | 0.190 | 0.294 | 0.104 |  |  |
| Measurement as per OctoNus theory： |  |  |  |  |  |  |  |
| Crown angle | 。 | N／A | N／A | N／A | N／A |  |  |
| Pavilion angle | － | N／A | N／A | N／A | N／A |  |  |
| Culet through bezel | － | N／A |  |  |  | N／A |  |
| Fish eye effect | 。 | N／A |  |  |  | N／A |  |


| Paint／Dug |  | Avg | Type | Sym | Max | Dev | Sym |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Crown | 。 | N／A | N／A | N／A | N／A | N／A | N／A |
| Crown | notches | N／A，N／A |  |  | N／A | N／A |  |
| Pavilion | － | N／A | N／A | N／A | N／A | N／A | N／A |
| Pavilion | notches | N／A，N／A |  |  | N／A | N／A |  |

Detailed parameters

| Parameter |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Diameter | mm | 6.943 | 6.966 | 6.966 | 6.956 |  |  |  |  |
| Crown angle | － | 35.22 | 35.46 | 35.57 | 35.39 | 35.33 | 35.05 | 35.00 | 35.04 |
| Crown height | \％ | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Crown height | mm | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Crown height at girdle minima | \％ | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
|  |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Crown height at girdle minima | mm | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
|  |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Crown azimuth | 。 | 0.9 | 45.2 | 89.5 | 134.8 | 182.1 | 226.6 | 272.0 | 316.4 |
| Crown azimuth deviation from ideal | 。 | 0.87 | 0.23 | －0．47 | －0．17 | 2.13 | 1.60 | 2.02 | 1.42 |
| Pavilion angle | 。 | 41.18 | 40.78 | 40.30 | 40.17 | 40.30 | 40.72 | 41.19 | 41.35 |
| Pavilion depth | \％ | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Pavilion depth | mm | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Pavilion depth at girdle minima | \％ | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
|  |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Pavilion depth at girdle minima | mm | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
|  |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Pavilion azimuth | 。 | 0.0 | 45.9 | 90.4 | 136.1 | 181.5 | 227.5 | 271.6 | 316.8 |
| Pavilion azimuth deviation from ideal | － | 0.00 | 0.85 | 0.39 | 1.06 | 1.50 | 2.52 | 1.62 | 1.78 |
| Upper girdle facets angle | － | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
|  |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Upper girdle facets height | \％ | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
|  |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Upper girdle facets height | mm | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
|  |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Upper girdle facets azimuth | － | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
|  |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Upper girdle facets azimuth deviation from ideal | － | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
|  |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Star facets angle | － | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Star facets azimuth | 。 | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Star facets azimuth deviation from ideal | 。 | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Star ： <br> Upper ratio | \％ | N／A ： N／A | $\begin{aligned} & \text { N/A: } \\ & \text { N/A } \end{aligned}$ | $\begin{aligned} & \text { N/A: } \\ & \text { N/A } \end{aligned}$ | $\begin{aligned} & \text { N/A: } \\ & \text { N/A } \end{aligned}$ | $\begin{aligned} & \text { N/A: } \\ & \text { N/A } \end{aligned}$ | $\begin{aligned} & \text { N/A: } \\ & \text { N/A } \end{aligned}$ | $\begin{aligned} & \text { N/A : } \\ & \text { N/A } \end{aligned}$ | $\begin{aligned} & \text { N/A: } \\ & \text { N/A } \end{aligned}$ |
| Lower girdle facets angle | － | 42.13 | 41.99 | 41.78 | 41.49 | 41.24 | 41.31 | 41.26 | 41.36 |
|  |  | 41.34 | 41.55 | 42.03 | 42.26 | 42.27 | 42.32 | 42.47 | 42.31 |
| Lower girdle facets height | \％ | 35.39 | 35.45 | 35.29 | 35.31 | 35.51 | 35.40 | 35.39 | 36.00 |
|  |  | 35.72 | 36.09 | 35.72 | 35.75 | 35.58 | 35.76 | 35.70 | 35.43 |
| Lower girdle facets height | mm | 2.463 | 2.467 | 2.456 | 2.458 | 2.471 | 2.464 | 2.463 | 2.506 |
|  |  | 2.486 | 2.512 | 2.486 | 2.488 | 2.476 | 2.489 | 2.485 | 2.466 |
| Lower girdle facets azimuth | － | 12.0 | 34.4 | 56.9 | 79.4 | 102.0 | 125.0 | 147.7 | 170.6 |
|  |  | 193.1 | 215.8 | 238.4 | 260.7 | 283.0 | 305.2 | 327.6 | 349.8 |
| Lower girdle facets azimuth deviation from ideal | － | 0.73 | 0.61 | 0.66 | 0.66 | 0.80 | 1.23 | 1.44 | 1.82 |
|  |  | 1.90 | 2.02 | 2.16 | 1.93 | 1.76 | 1.40 | 1.36 | 1.10 |
| Depth Girdle Facet | \％ | 80.90 | 80.55 | 80.18 | 80.28 | 80.86 | 79.91 | 80.21 | 81.58 |
|  |  | 81.25 | 81.81 | 80.50 | 80.63 | 80.67 | 81.42 | 81.16 | 80.67 |
| Length Girdle Facet | \％ | 79.27 | 78.91 | 78.56 | 78.66 | 79.26 | 78.30 | 78.62 | 80.01 |
|  |  | 79.67 | 80.25 | 78.87 | 79.00 | 79.15 | 79.92 | 79.68 | 79.19 |
| Table | \％ | 55.19 | 55.22 | 55.65 | 55.50 |  |  |  |  |
| Table | mm | 3.841 | 3.843 | 3.873 | 3.863 |  |  |  |  |
| Twist | － | 0.87 | 0.63 | 0.86 | 1.23 | 0.62 | 0.92 | 0.40 | 0.36 |
| Girdle Bezel | \％ | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Girdle Bezel | mm | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Girdle Bone | \％ | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Girdle Bone | mm | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Girdle Valley | \％ | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
|  |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Girdle Valley | mm | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
|  |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Crown painting | － | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
|  |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Crown painting | notches | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
|  |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Pavilion painting | － | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
|  |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Pavilion painting | notches | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
|  |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Measurement as per OctoNus theory： |  |  |  |  |  |  |  |  |  |
| Crown angle | 。 | N／A | N／A | N／A | N／A |  |  |  |  |
| Pavilion angle | － | N／A | N／A | N／A | N／A |  |  |  |  |


| Offset | Distance, $\%$ | Distance, mm |
| :--- | :---: | :---: |
| Girdle-Culet offset by table axis | $1.08 \pm 0.92$ | $0.026 \pm 0.062$ |
| Girdle-Table offset by table axis | $0.38 \pm 0.90$ | $0.075 \pm 0.064$ |
| Culet-Table offset by table axis | $1.46 \pm 0.93$ | $0.101 \pm 0.065$ |
| Girdle to table-culet line offset | 0.08 | 0.006 |


| Culet shift ratio by main diameter |  |  |
| :--- | :--- | :--- |
| Main diameter (avg) |  |  |
| Width-wise culet shift ratio | $3.538 \mathrm{~mm}, 50.83 \%$ | $3.960 \mathrm{~mm}, 100 \%$ |
| Lengh-wise culet shift ratio | $3.438 \mathrm{~mm}, 49.39 \%$ | $3.405 \mathrm{~mm}, 48.92 \%$ |

Crown and pavilion views of the diamond with indication of the diameter minimum and maximum


## Plots

Girdle thickness plot

## Facets' azimuth and slope angles




## Pavilion and Crown heights




## Additional illustrations



| $\phi-$ | Girdle center | Culet center | Table center |
| :--- | :--- | :--- | :--- | :--- |

