## General information

Model
Expert name
Report date
Real weight, ct
Calculated weight, ct
Spread

Simple
Makoed A.G.
29.11.2006
2.08, 2.0851
-0.11 ct, -5.73\%


## Main parameters

| Parameter |  | Avg | Min | Max | Dev |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Diameter | mm | 8.098 | 8.084 | 8.115 | 0.39 \%, 0.032 mm |
| Crown angle | - | 34.38 | 33.93 | 34.66 | 0.73 |
| Crown height (Mains) | \% | 14.89 | 14.71 | 15.04 | 0.33 |
| Crown height (Mains) | mm | 1.206 | 1.191 | 1.218 | 0.027 |
| Crown height (Upper girdle facets) | \% | 15.31 | 15.31 | 15.31 | 0.00 |
| Crown height (Upper girdle facets) | mm | 1.240 | 1.240 | 1.240 | 0.000 |
| Upper girdle facets angle | - | 39.63 | 39.63 | 39.63 | 0.00 |
| Upper girdle facets height | \% | 9.42 | 9.42 | 9.42 | 0.00 |
| Upper girdle facets height | mm | 0.763 | 0.763 | 0.763 | 0.000 |
| Star facets angle | - | N/A | N/A | N/A | N/A |
| Star: <br> Upper ratio | \% | N/A : N/A | N/A: N/A | N/A : N/A | N/A |
| Pavilion angle | 。 | 41.13 | 40.95 | 41.34 | 0.39 |
| Pavilion depth (Mains) | \% | 43.43 | 43.01 | 43.92 | 0.90 |
| Pavilion depth (Mains) | mm | 3.517 | 3.483 | 3.556 | 0.073 |
| Pavilion depth (Lower girdle facets) | \% | 43.05 | 43.05 | 43.05 | 0.00 |
| Pavilion depth (Lower girdle facets) | mm | 3.486 | 3.486 | 3.486 | 0.000 |
| Lower girdle facets angle | ${ }^{\circ}$ | 40.71 | 40.71 | 40.71 | 0.00 |
| Lower girdle facets height | \% | 32.19 | 32.19 | 32.19 | 0.00 |
| Lower girdle facets height | mm | 2.607 | 2.607 | 2.607 | 0.000 |
| Total height | \% | 61.71 |  |  |  |
| Total height | mm | 4.997 |  |  |  |
| Table | \% | 56.62 | 56.13 | 56.93 | 0.80 |
| Table | mm | 4.585 | 4.545 | 4.610 | 0.065 |
| Culet | \% | 0.49 | 0.42 | 0.57 | 0.16 |
| Culet | mm | 0.040 | 0.034 | 0.046 | 0.013 |
| Twist | - | 1.43 | 0.15 | 2.82 | 2.66 |
| Girdle thickness (Mains) | \% | 3.40 | 3.00 | 3.72 | 0.72 |
| Girdle thickness (Mains) | mm | 0.275 | 0.243 | 0.301 | 0.058 |
| Girdle thickness (Upper/Lower g.f.) | \% | 4.61 | 4.30 | 4.92 | 0.62 |
| Girdle thickness (Upper/Lowe g.f.) | mm | 0.373 | 0.348 | 0.398 | 0.050 |
| Girdle thickness (Crown Mains) | \% | 3.41 | 3.07 | 3.72 | 0.65 |
| Girdle thickness (Crown Mains) | mm | 0.276 | 0.248 | 0.301 | 0.053 |
| Girdle thickness (Upper girdle facets) | \% | 4.30 | 4.30 | 4.30 | 0.00 |
| Girdle thickness (Upper girdle facets) | mm | 0.348 | 0.348 | 0.348 | 0.000 |
| Girdle thickness (Pavilion Mains) | \% | 3.39 | 3.00 | 3.70 | 0.70 |
| Girdle thickness (Pavilion Mains) | mm | 0.275 | 0.243 | 0.300 | 0.057 |
| Girdle thickness (Lower girdle facets) | \% | 4.92 | 4.92 | 4.92 | 0.00 |
| Girdle thickness (Lower girdle facets) | mm | 0.398 | 0.398 | 0.398 | 0.000 |


| Offset | Distance, $\%$ | Distance, mm |
| :--- | :---: | :---: |
| Girdle-Culet offset by table axis | $0.76 \pm 0.24$ | $0.004 \pm 0.017$ |
| Girdle-Table offset by table axis | $0.05 \pm 0.22$ | $0.062 \pm 0.019$ |
| Culet-Table offset by table axis | $0.76 \pm 0.25$ | $0.061 \pm 0.021$ |
| Girdle to table-culet line offset | 0.23 | 0.018 |


| Culet shift ratio by main diameter |  |  |
| :--- | :--- | :--- |
| Main diameter (avg) | $8.098 \mathrm{~mm}, 100 \%$ |  |
| Width-wise culet shift ratio | $3.987 \mathrm{~mm}, 49.23 \%$ | $4.098 \mathrm{~mm}, 50.61 \%$ |
| Lengh-wise culet shift ratio | $4.031 \mathrm{~mm}, 49.78 \%$ | $4.058 \mathrm{~mm}, 50.12 \%$ |

Detailed parameters

| Parameter |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Crown angle | 。 | 34.29 | 34.24 | 34.55 | 34.66 | 34.58 | 34.53 | 33.93 | 34.28 |
| Crown height（Mains） | \％ | 14.71 | 14.81 | 14.95 | 14.88 | 15.02 | 15.04 | 14.83 | 14.86 |
| Crown height（Mains） | mm | 1.191 | 1.199 | 1.210 | 1.205 | 1.216 | 1.218 | 1.201 | 1.204 |
|  | \％ | 15.31 | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Crow | \％ | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
|  | mm | 1.240 | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
|  | mm | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Crown azimuth | － | 357.2 | 42.3 | 85.5 | 130.4 | 175.1 | 219.2 | 265.1 | 312.0 |
| Upper girdle facets angle | 。 | 39.63 | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Upper girdle facets angle |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Upper girdle facets height | \％ | 9.42 | 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 |
|  | mm | 0.763 | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
|  | mm | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Upp | － | 183.6 | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Upp |  | 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 | ${ }^{\circ}$ | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Star ： <br> Upper ratio | \％ | 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 | $\begin{aligned} & \hline \text { N/A : } \\ & \text { N/A } \end{aligned}$ |
| Pavilion angle | 。 | 40.97 | 41.05 | 41.08 | 41.13 | 41.22 | 41.28 | 41.34 | 40.95 |
| Pavilion depth（Mains） | \％ | 43.77 | 43.92 | 43.51 | 43.12 | 43.01 | 43.17 | 43.50 | 43.48 |
| Pavilion depth（Mains） | mm | 3.544 | 3.556 | 3.523 | 3.492 | 3.483 | 3.495 | 3.523 | 3.521 |
| Pavilion depth（Lower girdle facets） | \％ | 43.05 | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Pavilion depth（Lower girdle facets） |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Pavilion depth（Lower girdle facets） | mm | 3.486 | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Pavilion depth（Lower girdle facets） | mm | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Pavilion azimuth | － | 0.0 | 39.7 | 85.4 | 131.1 | 172.8 | 221.4 | 264.7 | 311.6 |
|  | 。 | 40.71 | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Lower girde facets angle |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| we | \％ | 32.19 | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| 位 | \％ | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Lower girdle facets height | mm | 2.607 | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Lower girdle facets height | mm | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Lower girdle facets azimuth | － | 10.4 | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Lower girdle facets azimuth |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Crown azimuth deviation from ideal | 。 | －2．82 | －2．71 | －4．48 | －4．62 | －4．93 | －5．77 | －4．89 | －3．00 |
| Upper girdle facets azimuth deviation | 。 | 172.33 | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| from ideal |  | 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 |
| Pavilion azimuth deviation from ideal | 。 | 0.00 | －5．34 | －4．63 | －3．89 | －7．16 | －3．60 | －5．25 | －3．37 |
| Lower girdle facets azimuth deviation | 。 | －0．90 | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| from ideal |  | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Table | \％ | 56.93 | 56.13 | 56.82 | N／A |  |  |  |  |
| Table | mm | 4.610 | 4.545 | 4.601 | N／A |  |  |  |  |
| Twist | － | 2.82 | 2.63 | 0.15 | 0.73 | 2.24 | 2.17 | 0.36 | 0.38 |
| Girdle thickness（Crown Mains） | \％ | 3.25 | 3.07 | 3.25 | 3.70 | 3.72 | 3.53 | 3.37 | 3.36 |
| Girdle thickness（Crown Mains） | mm | 0.263 | 0.248 | 0.263 | 0.300 | 0.301 | 0.286 | 0.273 | 0.272 |
| Girdle thickness（Upper girdle facets） | \％ | 4.30 | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Girdle thickness（Upper girdle facets） | \％ | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Girdle thickness（Upper girdle facets） | mm | 0.348 | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Girdle thickness（Upper girdle facets） | mm | N／A | N／A | N／A | N／A | N／A | N／A | N／A | N／A |
| Girdle thickness（Pavilion Mains） | \％ | 3.26 | 3.00 | 3.25 | 3.70 | 3.68 | 3.52 | 3.37 | 3.37 |
| Girdle thickness（Pavilion Mains） | mm | 0.264 | 0.243 | 0.263 | 0.300 | 0.298 | 0.285 | 0.273 | 0.273 |
| Girdle thickness（Lower girdle facets） | \％ | 4.92 | 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 thickness（Lower girdle facets） | mm | 0.398 | 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 and crown views of the diamond with indication of the diameter minimum and maximum

Invisible edges are
hidden
Invisible edges are
drawn taking refraction
into account
$180^{\circ}$

## Plots

Girdle thickness plot

## All facets' slope and azimuth angles without breakdown into groups



## All facets' heights without breakdown into groups



## Facets' slope and azimuth angles with breakdown into groups



Pavilion and crown views of the diamond with indication of main facets' slope angles (if present) Invisible edges are drawn taking refraction into account


Pavilion and crown views of the diamond with indication of facets' slope angles


Pavilion and crown views of the diamond with indication of deviation of facets' slope angles from the average values


## Pavilion and Crown heights




Deviations of Pavilion and Crown heights from the average values (\%)

## Additional illustrations



Pavilion and crown views of the diamond with indication of the maximum circle that may be inscribed (MIC) in the girdle outline along with the section of the model in the circle's plane


Pavilion and crown views of the diamond with indication of invisible edges without refraction

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

