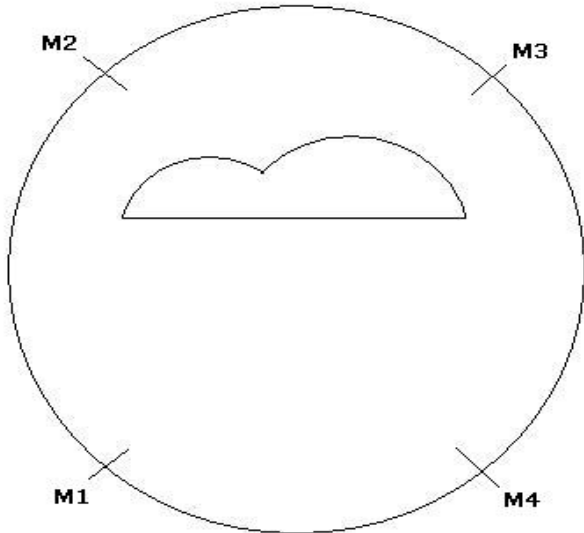


## Calculated Deck Hight of Pistons and Deck Hight Volume

| Cylinder     | M1      | M2      | M3      | M4      | Mean-M  | DC Vol. (cc) | CR              | Quench  |
|--------------|---------|---------|---------|---------|---------|--------------|-----------------|---------|
| 1            | 0.00900 | 0.00550 | 0.00875 | 0.01550 | 0.00969 | 3.02494      | <b>10.35716</b> | 0.06069 |
| 2            | 0.01325 | 0.00700 | 0.00600 | 0.01250 | 0.00969 | 3.02494      | <b>10.35716</b> | 0.06069 |
| 3            | 0.01125 | 0.01075 | 0.01100 | 0.01200 | 0.01125 | 3.35155      | <b>10.31709</b> | 0.06225 |
| 4            | 0.01025 | 0.01250 | 0.01425 | 0.01150 | 0.01213 | 3.53444      | <b>10.29481</b> | 0.06313 |
| 5            | 0.02125 | 0.01175 | 0.01150 | 0.02200 | 0.01663 | 4.47506      | <b>10.33692</b> | 0.06163 |
| 6            | 0.01900 | 0.01350 | 0.01100 | 0.01700 | 0.01513 | 4.16152      | <b>10.37554</b> | 0.06013 |
| 7            | 0.02100 | 0.01400 | 0.01400 | 0.02200 | 0.01775 | 4.71022      | <b>10.30816</b> | 0.06275 |
| 8            | 0.01525 | 0.02000 | 0.02075 | 0.01650 | 0.01813 | 4.78860      | <b>10.29861</b> | 0.06313 |
| Mean: (all)  |         |         |         |         | 0.01380 | 3.88391      | <b>10.33068</b> | 0.06180 |
| (1-4)        |         |         |         |         | 0.01069 | 3.23397      | <b>10.33155</b> | 0.06169 |
| (5-8)        |         |         |         |         | 0.01691 | 4.53385      | <b>10.32981</b> | 0.06191 |
| Range: (all) |         |         |         |         | 0.00844 | 1.76366      | <b>0.08073</b>  | 0.00300 |
| (1-4)        |         |         |         |         | 0.00244 | 0.50950      | <b>0.06235</b>  | 0.00244 |
| (5-8)        |         |         |         |         | 0.00300 | 0.62708      | <b>0.07692</b>  | 0.00300 |

| Cyl. 1-4 (GV1) |            | Cyl. 5-8 (GV2) |            |
|----------------|------------|----------------|------------|
| Gskt Bore      | Gskt Thick | Gskt Bore      | Gskt Thick |
| 4.080          | 0.051      | 4.080          | 0.045      |

Estimated Values for Calculating Compression Ratio:



|       | DI                | PV      | GV1      | GV2     | CC       |
|-------|-------------------|---------|----------|---------|----------|
| ci    | 43.36895          | 0.24409 | 0.66678  | 0.58833 | 3.53938  |
| cc    | 710.68973         | 4.00000 | 10.92651 | 9.64104 | 58.00000 |
| T-cid | <b>346.95159</b>  |         |          |         |          |
| T-ccd | <b>5685.51785</b> |         |          |         |          |

$$CR = (DI + PV + DC + GV + CC) / (PV + DC + GV + CC)$$

CR = Compression Ratio

DI = Displacement

PV = Piston Volume

DC = Deck Clearance Volume

GV = Gasket Volume

CC = Combustion Chamber Volume