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Compression Ratio 'Plus' (C)2009 Performance Trends Inc.

Registered to: Kevin Gertgen

## Engine File: 97 LS1 Chevy Plus

Time: 01:48:20:pm

Date: 03:06:2009

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File Comment: APPROXIMATE specs for the all new 97 LS1 346 cid Chevy V-8.

| Base Engine Inputs     |       |
|------------------------|-------|
| Bore, in               | 3.9   |
| Stroke, in             | 3.62  |
| # of Cylinders         | 8     |
| Rod Length, in         | 6.098 |
| Int Valve Closing, deg | 69.0  |
| Deck Height, in        | 9.238 |

| Chamber/Piston Inputs   |      |
|-------------------------|------|
| Chamber CCs in Head     | 67.5 |
| Piston Design: Dome Top |      |
| Piston Dome, ccs        |      |
| Gasket Thickness, in    | .04  |
| Gasket Bore Dia, in     | 4    |
| Deck Ht Clearance, in   | 0    |
| Piston Ring Depth, in   | .22  |
| Piston Top O.D., in     | 3.85 |
| Compression Ht, in      | 1.33 |

| Calculated Results       | Cu. In.      | CCs    | Liters |
|--------------------------|--------------|--------|--------|
| Cylinder Size            | 43.24        | 708.8  | 0.709  |
| Engine Size              | 345.95       | 5670.2 | 5.67   |
| Chamber Size             | 4.69         | 76.8   | 0.077  |
| <b>Compression Ratio</b> | <b>10.22</b> |        |        |
| Eff. Comp. Ratio         | 24.14        |        |        |
| Dyn. Comp. Ratio         | 7.87         |        |        |
| Cranking Pres, PSI       | 207          |        |        |
| Bore/Stroke Ratio        | 1.077        |        |        |
| Rod/Stroke Ratio         | 1.685        |        |        |
| Quench                   | .040         |        |        |

| Volume Contributions | Cu. In. | CCs  | % of Total |
|----------------------|---------|------|------------|
| Head Chamber         | 4.118   | 67.5 | 87.8       |
| Gasket               | 0.503   | 8.24 | 10.7       |
| Deck                 | 0.      | 0.   | 0.         |
| Piston Dome          | 0.      | 0.   | 0.         |
| Piston O.D.          | 0.067   | 1.1  | 1.4        |

| Plus Features                     |    |
|-----------------------------------|----|
| Barometric Pres, "Hg              | 29 |
| Cyl Leakage: Typical (production) |    |
| Turbo or Supercharged: Yes        |    |
| Boost, psi                        | 20 |

|  |      |
|--|------|
| Max Engine RPM                         | 6000 |
| Total Small End Wt, gms                | 450  |
| Half Big End Wt, gms                   | 250  |
| 3620 ft/min 4969 Gs 6964 lbs bolt load |      |