SHEET1

**Regression Analysis: ΔL versus T0-T15, T13-T15**

**Regression Equation**

|  |  |  |
| --- | --- | --- |
| ΔL | = | -16.85 + 1.090 (T0-T15) + 1.252 (T13-T15) |

**Coefficients**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Term** | **Coef** | **SE Coef** | **T-Value** | **P-Value** | **VIF** |
| Constant | -16.85 | 1.17 | -14.36 | 0.000 |  |
| T0-T15 | 1.090 | 0.124 | 8.82 | 0.000 | 3.18 |
| T13-T15 | 1.252 | 0.115 | 10.87 | 0.000 | 3.18 |

**Model Summary**

|  |  |  |  |
| --- | --- | --- | --- |
| **S** | **R-sq** | **R-sq(adj)** | **R-sq(pred)** |
| 0.933992 | 93.68% | 93.52% | 91.16% |

**Analysis of Variance**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Source** | **DF** | **Adj SS** | **Adj MS** | **F-Value** | **P-Value** |
| Regression | 2 | 983.41 | 491.706 | 563.66 | 0.000 |
| T0-T15 | 1 | 67.84 | 67.838 | 77.77 | 0.000 |
| T13-T15 | 1 | 103.06 | 103.064 | 118.15 | 0.000 |
| Error | 76 | 66.30 | 0.872 |  |  |
| Total | 78 | 1049.71 |  |  |  |

**Fits and Diagnostics for Unusual Observations**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Obs** | **ΔL** | **Fit** | **Resid** | **Std Resid** |  |  |
| 1 | 0.000 | -2.249 | 2.249 | 3.69 | R | X |
| 2 | 0.932 | 1.259 | -0.327 | -0.39 |  | X |
| 3 | 2.682 | 3.452 | -0.770 | -0.88 |  | X |
| 4 | 3.931 | 4.820 | -0.889 | -1.02 |  | X |
| 23 | 16.598 | 14.568 | 2.030 | 2.19 | R |  |
| 28 | 17.117 | 15.082 | 2.035 | 2.19 | R |  |
| 31 | 17.117 | 15.187 | 1.930 | 2.08 | R |  |

*R  Large residual  
X  Unusual X*

