SHEET1

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

**Regression Equation**

|  |  |  |
| --- | --- | --- |
| ΔL | = | -12.13 + 1.039 T0 + 1.384 T13 - 2.682 T15 |

**Coefficients**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Term** | **Coef** | **SE Coef** | **T-Value** | **P-Value** | **VIF** |
| Constant | -12.13 | 5.10 | -2.38 | 0.020 |  |
| T0 | 1.039 | 0.135 | 7.71 | 0.000 | 6.56 |
| T13 | 1.384 | 0.180 | 7.67 | 0.000 | 14.89 |
| T15 | -2.682 | 0.364 | -7.36 | 0.000 | 6.20 |

**Model Summary**

|  |  |  |  |
| --- | --- | --- | --- |
| **S** | **R-sq** | **R-sq(adj)** | **R-sq(pred)** |
| 0.934586 | 93.76% | 93.51% | 90.24% |

**Analysis of Variance**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Source** | **DF** | **Adj SS** | **Adj MS** | **F-Value** | **P-Value** |
| Regression | 3 | 984.20 | 328.067 | 375.60 | 0.000 |
| T0 | 1 | 51.95 | 51.951 | 59.48 | 0.000 |
| T13 | 1 | 51.42 | 51.415 | 58.86 | 0.000 |
| T15 | 1 | 47.35 | 47.354 | 54.21 | 0.000 |
| Error | 75 | 65.51 | 0.873 |  |  |
| Total | 78 | 1049.71 |  |  |  |

**Fits and Diagnostics for Unusual Observations**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Obs** | **ΔL** | **Fit** | **Resid** | **Std Resid** |  |  |
| 1 | 0.000 | -1.973 | 1.973 | 3.68 | R | X |
| 2 | 0.932 | 1.384 | -0.452 | -0.55 |  | X |
| 23 | 16.598 | 14.511 | 2.087 | 2.25 | R |  |
| 28 | 17.117 | 15.011 | 2.106 | 2.28 | R |  |
| 29 | 17.117 | 15.264 | 1.853 | 2.01 | R |  |
| 31 | 17.117 | 15.130 | 1.987 | 2.15 | R |  |

*R  Large residual  
X  Unusual X*

