

Análisis de la Corriente, 706B (Experimento final B&B)  
Box\_Benken\_706B\_ortogonal\_09.04.2006.sgp (B&B\_design\_for\_all\_cases\_09042006.sfx)  
27/08/2006 2:16 p.m.

#### Analysis Summary

Dependent variable: Ol\_y\_Ona\_706B

Factors:

- Carga
- Vapor\_E530
- Presión\_C525
- Nivel\_V540
- Vapor\_E532

Number of complete cases: 46

#### The StatAdvisor

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This procedure performs a multifactor analysis of variance for Ol y Ona 706B. It constructs various tests and graphs to determine which factors have a statistically significant effect on Ol y Ona 706B. It also tests for significant interactions amongst the factors, given sufficient data. The F-tests in the ANOVA table will allow you to identify the significant factors. For each significant factor, the Multiple Range Tests will tell you which means are significantly different from which others. The Means Plot and Interaction Plot will help you interpret the significant effects. The Residual Plots will help you judge whether the assumptions underlying the analysis of variance are violated by the data.

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Analysis of Variance for Ol y Ona 706B - Type III Sums of Squares

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
MAIN EFFECTS					
A:Carga	72,5886	2	36,2943	58,56	0,0000
B:Vapor E530	1,99021	2	0,995105	1,61	0,2152
C:Presión C525	205,331	2	102,665	165,65	0,0000
D:Nivel_V540	110,153	2	55,0767	88,87	0,0000
E:Vapor_E532	35,6193	2	17,8096	28,74	0,0000
RESIDUAL	21,6917	35	0,619763		
TOTAL (CORRECTED)	448,476	45			

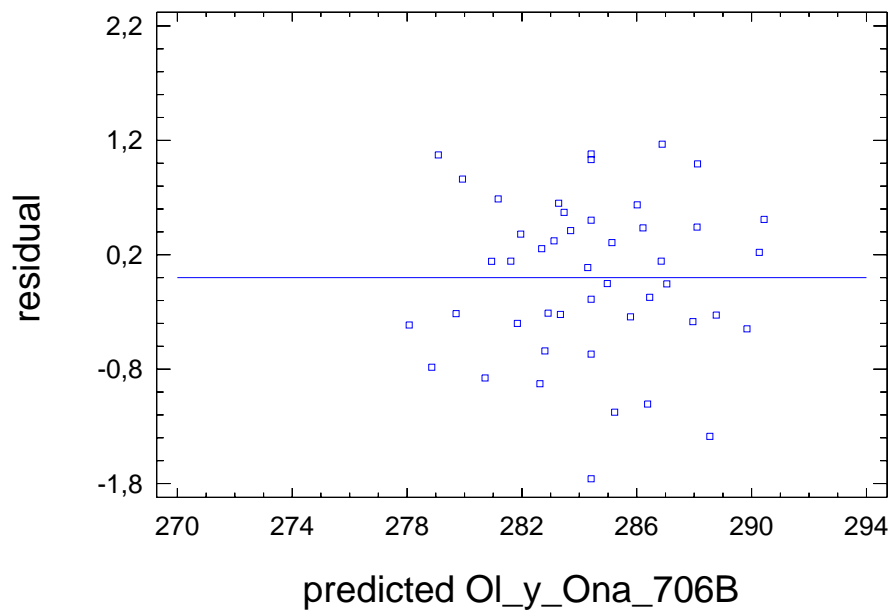
All F-ratios are based on the residual mean square error.

The StatAdvisor

The ANOVA table decomposes the variability of Ol y Ona 706B into contributions due to various factors. Since Type III sums of squares (the default) have been chosen, the contribution of each factor is measured having removed the effects of all other factors. The P-values test the statistical significance of each of the factors. Since 4 P-values are less than 0,05, these factors have a statistically significant effect on Ol\_y\_Ona\_706B at the 95,0% confidence level.

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Residual Plot for OI\_y\_Ona\_706B



la Corriente, 706B (Experimento final B&B)  
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Residual Plot for OI\_y\_Ona\_706B

