

SUMMARY

ANALISIS KUALITAS MINYAK SOLAR DI PUSDIKLAT MIGAS CEPU

QUALITY CONTROL OF DIESEL FUEL OIL PROCESS IN PUSDIKLAT MIGAS OF CEPU

Created by FEDERIKA, YULINDIA

Subject : Analisis minyak, Bahan bakar diesel, Analisis multivarian
Subject Alt : Multivariate analysis
Keyword : minyak solar ; peta kendali T2 Hotteling ; kapabilitas proses

Description :

Minyak solar merupakan salah satu bahan bakar motor yang sangat dibutuhkan oleh masyarakat Indonesia, sehingga kualitas minyak solar sangat diperhatikan untuk mengetahui baik atau buruknya minyak solar yang dihasilkan. Variabel kualitas yang digunakan sebagai kriteria untuk menghasilkan minyak solar yang baik di Pusdiklat Migas Cepu adalah density, residu karbon, colour, flash point, pour point, dan viskositas kinematik. Penelitian ini bertujuan untuk mengetahui kualitas minyak solar apakah dalam kondisi terkendali dan mengetahui kapabilitas proses dengan melihat nilai Cp. Berdasarkan hasil analisis, dapat disimpulkan bahwa peta kendali T2 Hotteling untuk variabel density, residu karbon, colour, flash point, pour point, dan viskositas kinematik dalam keadaan tidak terkendali, namun setelah menghilangkan beberapa titik yang keluar dari batas, peta kendali T2 Hotteling menjadi terkendali. Untuk kapabilitas proses pada minyak solar diperoleh nilai $C_p = 6.81481$ sehingga proses dikatakan kapabel.

Description Alt:

Diesel fuel oil is one of the motor fuel that is needed by the people of Indonesia, so that the quality of diesel fuel oil to be very good for the poor or diesel fuel oil is produced. The variable quality is used as criteria to produce diesel fuel oil in both the oil and Pusdiklat Migas Cepu is the density, carbon residue, colour, flash point, pour point, and viskositas kinematic. This study aims to determine whether the quality of diesel fuel oil in reserve and find out the process with the capability to see the value of Cp. Based on the results of the analysis, it can be concluded that the control chart for T2 Hotteling type of variable density, carbon residue, colour, flash point, pour point, and viskositas kinematic not restrained in the circumstances, but after a certain point of exit from the boundary, the control chart into T2 Hotteling restrained. Process capability of the diesel fuel oil is obtained value $C_p = 6.81481$ so that the process said capable.

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Thank You,

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