Title:

Analytical Determination of Oil Shale Derived Diesel Fuel

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Interest has recently increased in oil shale as an alternative energy source for diesel fuel. Diesel fuel can readily be produced from oil shale. Market penetration of emerging fuels faces many barriers, including a detailed understanding of fuel properties. Two oil shale derived diesel fuels were compared to conventional and alternative diesel fuels. Analysis of the oil shale derived diesel fuels showed these samples readily met the ASTM D975 diesel fuel property specifications. Other properties, such as energy content and cold flow, were also similar for all fuels tested. More detailed analytical investigation, such as 2D NMR, GC/FID, and FTIR/ATR were used to perform qualitative comparisons of the fuels. While some differences existed, the fuels were similar enough to warrant further testing, such as engine dynamometer testing to measure emissions.

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