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Army Evaluation of JP-8 and Diesel Fuel Exposed to Anti-Detonation Material Filler (ADMF) for Fuel Tank Effects

Authors: Bernard R. Wright; Edwin A. Frame; SOUTHWEST RESEARCH INST SAN ANTONIO TX DEPT OF ENGINES FUELS AND LUBRICANTS

Abstract: Extensive laboratory research was conducted on metal mesh and organic foam products to determine their effects on fuels when placed in fuel tanks and the resulting effects to operating fuel systems. Tests done with and without mesh materials included fuel particulates, fuel elements, fuel color, fuel gum, Karl Fisher water, total acid number, jet fuel thermal oxidation test, conductivity, and lubricity (SLBOCLE BOCLE etc.). Two interestingly negative results were in the areas of lubrication and particle contaminants. All metallic mesh material had "**chaff**" or particles in the matrix of the material. All mesh materials metal mesh and organic foam products produced a significant change in the measured lubricity of the output fuel. Results of these extensive investigations did not identify any problems which could not be overcome (with additional resources) for the HMMWV and M915 FOV series military vehicles.

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