

## DEMONSTRATING ULTRA-LOW DIESEL VEHICLE EMISSIONS

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Light-duty chassis dynamometer driving cycle tests were conducted on a Mercedes A 170 diesel vehicle with various sulfur-level fuels and exhaust emission control systems. Vehicle emissions were measured over the Federal test procedure (FTP) and US06 cycle with each exhaust configuration and fuel. The fuel used in these experiments met the specifications of the fuels from the DECSE (Diesel Emission Control Sulfur Effects) program. Ultra-low sulfur (3 ppm) diesel

fuel was doped to 30 and 150 ppm sulfur so that all fuel properties except sulfur content would be the same.

Although the Mercedes A 170 vehicle is not certified for sale in the United States, its particulate and nitrogen oxide ( $\text{NO}_x$ ) emissions were within the Environmental Protection Agency requirements.