

- > FLA COE
- > FLB COE
- > FLD Conventional
- > Business Class
- > FLC 112 Conventional

- > Century Class Conventional
- > Argosy COE
- > Cargo
- > Columbia

- > Coronado
- > Business Class M2
- > Cascadia
- > 108SD/114SD

**Freightliner  
Service Bulletin**

## Diesel Fuel Quality and Supplemental Fuel Additives

The quality of fuel used is a very important factor in obtaining satisfactory engine performance, long engine life, and acceptable exhaust emission levels.

Detroit engines are designed to operate satisfactorily on a wide range of diesel fuels. For optimum engine operation and maximum service life, diesel fuels meeting the property requirements listed in **Table 5-1, Diesel Fuel Specifications** of DDC-SVC-BRO-0001, *Engine Requirements—Lubricating Oil, Fuel, And Filters* are recommended for use.

Supplemental fuel additives are not recommended due to potential fuel injection system or engine damage. Our experience indicates that such additives increase operating costs without providing benefit.

**Table 5-1, Diesel Fuel Specifications** was recently updated with the addition of a water coalescing effectiveness measurement as determined by ASTM D7261 test method. This is a measurement of roughly how much water passes through a fuel/water separator filter in a single pass. Supplemental fuel additives designed to disperse, emulsify, or carry the water through the fuel system should not be used, as they can disable or significantly reduce the efficiency of fuel/water separators, resulting in fuel system corrosion. Their effect on the efficiency of fuel/water separators should be evaluated by ASTM D7261 test method as noted in **Table 5-1, Diesel Fuel Specifications**. One facility that can run the ASTM D7261 test is Southwest Research Institute ([www.swri.com](http://www.swri.com)). Specifically within SWRI, the Fluids Filtration and Handling Research group within the Fuels and Lubricants Technology can run the test.

For complete information regarding Detroit fuel recommendations, reference DDC-SVC-BRO-0001, Section 5, on the Detroit website: [www.ddcsn.com/cps/rde/xchg/ddcsn/hs/3616.htm](http://www.ddcsn.com/cps/rde/xchg/ddcsn/hs/3616.htm).

## Warranty

This bulletin is informational only. Warranty does not apply.