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**SUBJECT: MY-All, Model 906 with Engines 642 & 651  
Winter Operation Using Diesel Fuels**

Temperatures falling below 5° F may cause:

- The engine to fail to start despite the starter turning over.
- The engine to start, but it may go off again after a brief period and then will not restart.

The reason for impaired fluidity of winter-diesel fuel is the separation of paraffin crystals in the diesel fuel when the outside temperature reaches 19.4° F or lower. The paraffin crystals will then clog the fuel filter and the tank strainer. In summer diesel fuel, jellification starts at 37.4° F.

To avoid these operating faults, diesel fuels with better flow characteristics are offered for the winter months.

**WARNING:** Never mix diesel fuel with kerosene or gasoline as the fuel system will be damaged.

Fuel jellification depends on:

- Temperature
- Vehicle idle time
- Fuel grades
- Fuel tank fill levels
- Vehicle model designation (different tank systems)
- Engine variant (different fuel filters)

**Procedure**

To fix these conditions:

- Defrost fuel in vehicle at room temperature (depending on the degree of jellification this can take up to 5 hours).
- At a fuel level < ½, the breakdown of the paraffin crystals can be accelerated through the addition of winter diesel fuel.
- From a technical point of view it is not necessary to replace the fuel filter.

Refer to "Winter operation with diesel fuels" WIS doc: BB00.40-P-0137-00A.

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