ISO22241 recommends Diesel Exhaust Fluid (DEF) should be stored in a cool, dry place. Ideal storage temperatures should be between 12°F (11°C) and 86°F (30°C). The reason of this recommendation is due to the fact DEF can lose its potency if stored above 86°F for prolonged periods of time.

So, what happens if you are filling your DEF tanks from a tote sitting outside in the heat this summer? The first thing to remember is the recommended storage temperature is the product temperature, NOT the outside air temperature. The product temperature will continually rise and fall based on the surrounding air temperature and will most likely not be held at a constant temperature.

The other consideration is most fleets cycle through DEF, so the product never has time to seriously degrade. Based on these conditions, most fleets storing DEF outside don’t see adverse impact to the product quality.

IDEAL OUTSIDE TOTE STORAGE
• Out of direct sunlight inside garages or warehouses
• Place the tote under a canopy or shaded area
• Keep caps and fittings securely tightened
• Use a tote cover