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Big Water  
Rigs



Granby FD – Tank 1  
3,500-gallon Vacuum Tanker  
Granby, Massachusetts

# Facts and Figures...

- Tank 1 is a 2011, E-One Water Master vacuum tanker operated by the Granby Fire Department located in western Massachusetts.
- The rig is built on an International chassis and is powered by a 430 hp International diesel motor
- Tank 1 has a Hale 1,250 gpm, PTO-driven pump and carries 3,500 gallons of water.
- The tanker carries a 3,500-gallon dump tank as well as a 2,500-gallon dump tank.
- The Granby FD protects the small town of Granby in Hampshire County, Massachusetts.

# Granby Tank 1



Tank 1 – like many vacuum tankers is equipped with two dump tanks. One for dump site operations and one that can be used for fill site operations.

# Granby Tank 1



Tank 1 is equipped with a traditional fire pump so that it can serve as a nurse tanker if needed and pump off its water to an attack engine through supply hose.

# Granby Tank 1



The tanker carries a limited amount of equipment - its primary focus is hauling water.

# Granby Tank 1



The tanker is equipped with three, 6-inch dumps – one on each side and one on the rear. When pressurized, the tanker easily can off-load its water at over 1,000 gpm through any of the dumps.

# Granby Tank 1



The tank on this rig is a 3,500-gallon aluminum tank that receives full credit under ISO because it is a sealed container.

# Granby Tank 1



A nice feature of this tanker is its 1,250 gpm PTO driven pump. The pump provides added flexibility as well as ISO credit for pumping capacity. The PTO drive is becoming more and more popular as technology improves. In the past, the PTO option often was limited to a smaller 500 to 750 gpm pump. Today, PTO driven pumps can be found all the way up to 1,500 gpm.



# Granby Tank 1



The tanker has limited compartmentation – but enough to carry the basics for tanker operations.

# Granby Tank 1



For loading operations, Kocheck's new self-leveling strainer is used.

# Granby Tank 1



Perhaps the greatest advantage of a vacuum tanker is the ability to load using only one person. In a limited staffing situation such as Granby's – this feature plays a huge role in successful water supply operations. This vacuum tanker can load in excess of 1,000 gpm using any of its three inlets.

# Granby Tank 1



Hard to believe, but the new vacuum tanker replaces this 5,000-gallon tanker **AND**...the vacuum tanker out-performs the old tanker as well. The old tanker was slow to fill and had limited off-load flexibility and was also very close to the GVWR.



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