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Big Water Rigs



Roosevelt Fire District Engine 63-14
1,000 gpm Water Supply Pumper
Hyde Park, New York

Facts and Figures...

- Engine 63-14 is a specialized water supply unit designed to support long distance relay pumping operations.
- The pumper is operated by the Roosevelt Fire District which is located in Hyde Park (Dutchess County) , New York.
- The engine is a 1984 E-One/Ford C-Series pumper powered by a 210 hp Caterpillar 3208 motor.
- It is outfitted with a 1,000 GPM Hale QSG Single Stage pump and carries 1,000 gallons of water.
- Engine 63-14 is a “dual use” pumper: it serves as the “second out engine” and as a hose truck for water supply operations.

Facts and Figures...

- The unit is not optimal as a “source” pumper, but it transports the hose just fine and can move over 1,500 gpm as a relay pumper.
- Engine 63-14 was taken out of front-line service in 1996 when it replaced the original hose truck, a 1969 Sanford/Ford with a 534 cu inch gas engine and dual stage Hale pump.
- In 1985, the Roosevelt Fire District studied the need for increased water supply support in their non-hydranted response district.
- It was determined that an investment in outfitting one vehicle with 3,000 feet of 5-inch LDH would increase the fire flow capacity to a majority of the high-hazard areas in the District.
- Engine 63-14 became one of the first hose trucks in the county; along with Union Vale and East Fishkill.

Fact and Figures...

- In 1989, Roosevelt utilized the LDH for its first major fire in neighboring Lagrange, NY. Shortly thereafter, Lagrange purchased a similar 5" LDH arrangement.
- Engine 63-14's hose capacity has been utilized for major commercial fires, such as a rubber recycling factory that used 11,000 feet of 5" for 6 days from a draft site; and the Hudson River State Hospital fire that burned for 3 days.
- The pumper has also augmented some bad hydrant areas in the City of Poughkeepsie, proving that big water solutions are not just a rural issue.
- The folks at Roosevelt feel that one of their contributions to their mutual aid neighbors is the ability to pipe "big water" to any location – a ½-mile at a time!

Roosevelt Engine 63-14



At 30 years old, this 1,000 gpm pumper still provides valuable service to the Roosevelt Fire District as a “relay pumper/hose truck” and as a “second-out pumper.

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The E-One pumper is built on a Ford C-series chassis and is powered by a Caterpillar motor.

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Even though the pumper's capacity is rated at 1,000 gpm, when operating as an "in-line" relay pumper, it is capable of supporting much higher flows.

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At a relay pumping drill in August 2012, this single-stage pump was able to support a 1,550 gpm flow while taking in and discharging through 5-inch LDH.

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Engine 63-14 carries 3,000 feet of 5-inch supply hose plus various LDH appliances and adaptors to support water supply operations in the mutual aid response area.

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With no high-flow discharge, the pumper is challenged to “get rid of” all the water that comes into the pump. However, the rig is set-up to support a clappered siamese operation that uses two pump discharges.

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Engine 63-14 is shown laying out its 3,000 feet of supply hose at the August 2012 drill. The photo makes it look like the pumper is going 70 mph – it is not. The photo frame caught once moment in time where the hose was coming out of the hose bed.

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The crew operates the pumper as the middle-pumper in a three-pumper relay operation.

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Two discharges are used to supply a double-clappered siamese into a single, 5-inch supply line to the attack pumper.

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Using this set-up (August 2012 drill) the total flow for the 5,100-ft relay of 5-inch LDH using just three pumpers was 1,016 gpm. With five pumpers – 1,500 gpm. View the results of the drill at:

<http://www.gotbigwater.com/content/events/file/ROFD1201%20Relay%20Pumping%20Drill%20Summary%20082312.pdf>



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*For more information contact us at
thebigcamel@gotbigwater.com*