

NOMINEE



Grede Holdings LLC Spring Hanger Bracket

Class 8 highway tractor tandem rear air suspension frame bracket.



- The previous casting design weighed 39 lbs. whereas the new casting design weighs 30 lbs., a 23.1% decrease in weight
- The casting process was changed from a traditional green sand molding process to a lost foam casting process, which allowed for increased design freedom to obtain a near net shape casting and the elimination of extra machining
- The lost foam casting process allowed for a near net shape casting. Wall sections were reduced to thinnest possible. Draft angles were reduced. Various holes were cast into the design instead of machined later.
- Lost Foam can be used to optimize the design by shedding excess weight, of many types of traditional sand castings for many different industries, including both automotive and heavy truck. The overall cost of the casting is also impacted as the lost foam process partially or completely eliminates the need for additional machining



Presented in collaboration with:

