

Productivity First-Round Winner
Innovations Challenge

April 2017

Prepared by Transportation Planning
Missouri Department of Transportation

Fleet Extended Life



Asset ID	Type	Make	Year	Operator	Notes
8738 XHD				9/22/16 J.S.	3/1/16 W.B.
9322				7/21/16 W.B.	3/1/16 J.S.
8306 XHD					
9316					
8579 XHD					
8995 HD					
9098 XHD					
7845 HD					
8838 Tractor					

Description

A fleet longevity team was formed to look at new processes and tools that could be put in place to address the need to maintain the fleet. The innovative Fleet Extended Life process effectively cleans the equipment, inspects the floor boards, frames, beds, and cabs of the equipment to address and treat rust issues before they completely deteriorate the metal. The small amount of time it takes to clean, treat, and prevent rust on equipment, will prevent longer downtimes of equipment to install floor pans and repair other rusted metal on the fleet.

Benefit

This process will extend the trade life of equipment saving the department money. This process will save time by cleaning and treating the equipment early in life so that the truck won't be down as long to address items such as replacing floor pans and major repairs to frame work and beds as well as other fleet components. This process also will improve safety because inspecting and cleaning the equipment is completed on a regular basis, preventing holes in bed sides and floor pans that would create employee safety concerns while driving the fleet.

Materials and Labor

Total labor hours: 6-8 hours per unit for cleaning and preparation time. Total material costs: Tool Box shop vac and battery--\$269.82 (1 per shed), Radiator Genie blow out tool--\$32 (1 per shed), Neutro Wash \$200-6 gallon pail (used on 3-4 units), Rust inhibitor \$90 (used on multiple fleet units), floor coating system \$50-\$60 per fleet unit.

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Additional photos or videos can be seen by accessing the Innovations Challenge SharePoint page at: <http://sharepoint/systemdelivery/TP/Documents/InnovationsChallenge.aspx>.

