

# Standard Car Truck Company

## Product Bulletin

### Barber TwinGuard

What Mike Johnson (Fleet Coordinator-Wisconsin Electric Power Co.) has to say about TwinGuard: “By using the Barber TwinGuard we have virtually eliminated wear in the bolster pocket.”



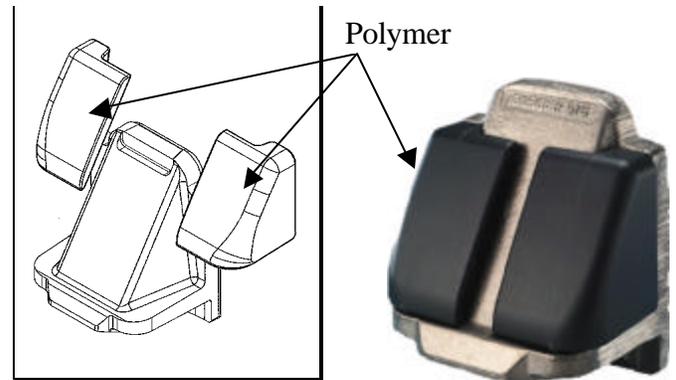
Mike Johnson (in hard hat) at WEPX teardown

Barber's **TwinGuard** friction wedge, by Standard Car Truck Company, was designed to improve bolster pocket wear performance with Elastomide Polymer Covers.

The extended asset life of the truck and its components increased asset utilization and an increase in the overall return on investment of trucks and wheels. This return is demonstrated by the near elimination of bolster pocket wear as a direct result of the twin action of the **TwinGuard** Wedge.

#### *Lateral Wedging Action –*

**TwinGuard's** unique split cover design allows the wedge to separate and fill the bolster pocket providing Barber's naturally damping effect while also protecting against side wall wear.



The TwinGuard Assembly

#### *Elastomide Heat Resistance –*

**TwinGuard's** exclusive qualities are provided in part by the Elastomide composition of the separate covers. Elastomide, developed in 1991, is a polymer based material that shows the highest tensile strength and heat resistance in the industry. In fact, it provides heat resistant protection up to 350 degrees F, more than 150 degrees greater protection than the RFE Polyester Polyurethane based products.

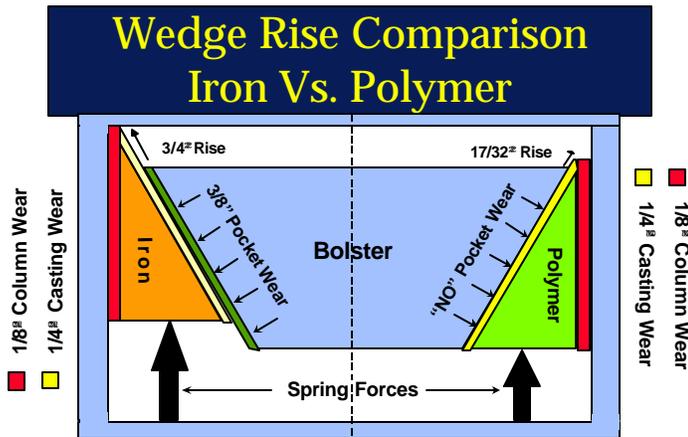


WEPX Car #2398



## Wedge Rise Results –

The following illustration shows a comparison in “Wedge Rise” between an iron friction wedge and the TwinGuard Wedge:



Estimate is Based On Equivalent Mileages for each friction wedge type. There is no measurable wear to the bolster pocket with polymer covered wedge. Bolster pocket wear with the iron wedge is 3/8" for the same mileage, resulting in 40% greater wedge rise and 100% greater pocket wear.

Notice that since there is no measurable wear to the pocket, wedge rise height remains virtually unchanged. This principle has been proven repeatedly in actual service performance results.

## Typical Friction Patterns–

Typical polymer cover friction patterns are shown in the following photograph of in-service wedges after 507,824 miles of service.



TwinGuard Wedges after 507,824 miles

Based on the inspection results we fully expect these **TwinGuard** wedges to last 1 million service miles with minimal bolster pocket wear.

Additionally, the effect this has on the bolster is plainly viewed by the bolster pocket photograph below (taken from the same in-service performance test).

WEPX Car #2398



507,824 miles & zero pocket wear

**TwinGuard** offers unparalleled protection for pocket wear. It effectively eliminates bolster pocket wear. This wedge outperforms all other plastic-backed wedges, providing twice the protection and delivering twice the impact to performance – eliminating component wear and providing hunting stability.

## The Proof is in the Polymer-

- Increased life cycles
- Less out-of-service time
- Reduced maintenance costs
- Simple application to all equipment
- Virtually no pocket or side wall wear



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