



# RED FRICTION LINE

*New red line organic products set standards in increasing wheel life*



**Freight Cars**



**Transit Cars**



**Locomotives**

## TreadGuard®

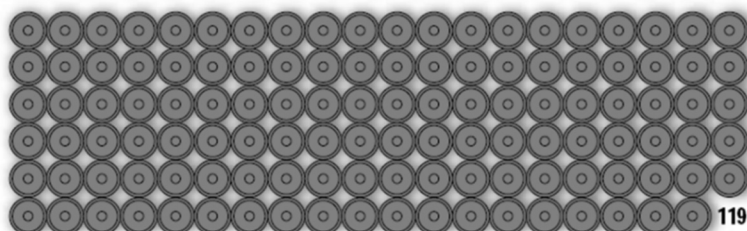
Proven performance for continuous wheel tread conditioning.

**TreadGuard** brake shoes continuously polish the wheel tread surface during braking to reduce wheel turnings and replacements due to shelling, spalling, out-of-round wheels and high impacts.



### 36-MONTH FIELD TEST RESULTS

- Wheel set changeouts due to shelling **without TG Shoes**
- Wheel set changeouts due to shelling **with TG Shoes**



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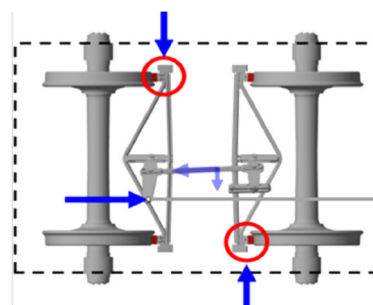
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## TreadGuard® FlangeGuard™

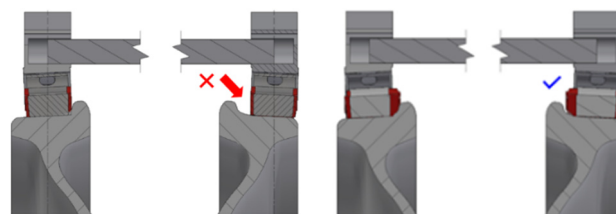
Same proven continuous wheel tread conditioning as TreadGuard, but also reduces asymmetric wheel flange wear.



**Asymmetric Wheel Wear** occurs when lateral forces caused by angled connecting rods force brake beams to shift, pushing each wheelset in opposite directions. This creates an asymmetric wear pattern in the wheel tread causing wheels to ride off center. This causes one wheel flange on each wheelset to contact the rail more and wear faster than the other.



**Beam-Centering™ FlangeGuard™** brake shoes keep brake beams aligned during braking and reduce lateral forces, prolonging wheel flange life.



**CONTACT**

**Wabtec Corporation**  
30 Isabella Street  
Pittsburgh, PA 15212 - USA  
Phone: 412.825.1000  
Fax: 412.825.1019