

Application : Mining mobile machinery - Dump truck





Using 20mm (3/4") AR400 plate in high impact loading areas to avoid cracking  
Using 20 mm (3/4") Hardface plate in the sliding- abrasion rear area.



- ENDURA trial was performed on Dumper body with Flat Floor design
- ENDURA liner was adjusted to 15mm thick.
- ENDURA increased service life more than **100%** vs. 400HB water quenched steels on the floor liner (loading area) and **50%** of service life more than hard facing material on the rear liner (dumping area).

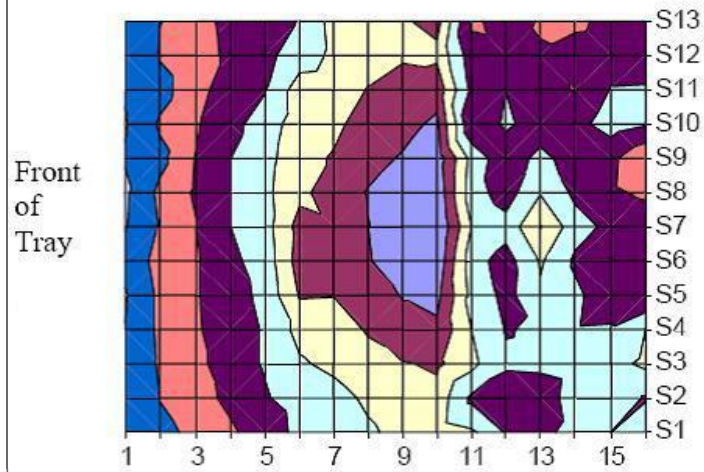
# The Results



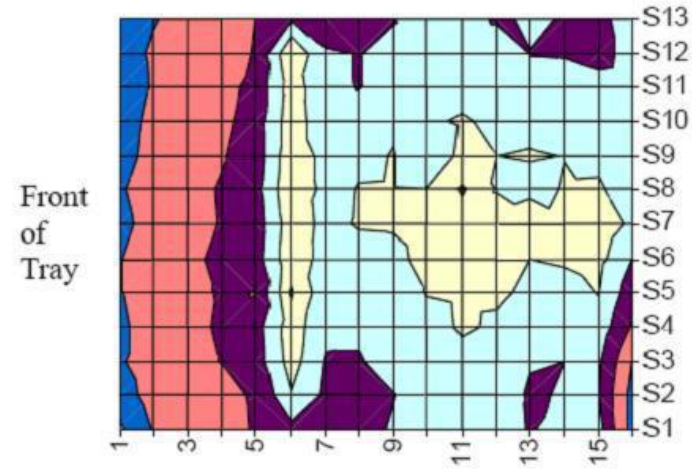
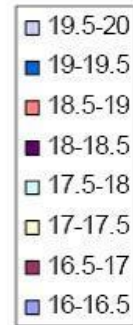
## Iron ore, hard rock

Liner details	Service Monitoring	Wear life
<p><b>ENDURA</b>  <b>15mm thick</b>                      Floor liner                      Rear liner</p>	<p>Nov 05 (12 months)                      5772Hrs ; 2,3MT</p> <p>Average wear : <b>0,8 mm</b>                      Average wear : <b>1,25 mm</b></p>	<p><b>Floor</b>  <b>ENDURA</b> gives ~ <b>100%</b>                      more than <b>WQ400HB</b></p>
<p><b>20mm thick</b>                      Floor liner (<b>BIS400</b>)                      Rear liner (<b>Dura9/10</b>)</p>	<p>Nov 05 (12 months)                      5977Hrs ; 2,4MT</p> <p>Average wear : <b>2 mm</b>                      Average wear : <b>2,5 mm</b></p>	<p><b>Rear</b>  <b>ENDURA</b> gives ~ <b>50%</b>                      more than <b>Hard facing plate</b>  <b>(Chromium carbides)</b></p>

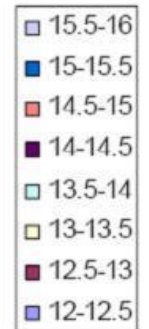
After 12 months in service **ENDURA** liner provides wear rates below 1mm / year in hard rock iron ore mining combined with excellent polish ability that prevents pitting/gouging/cracking in service.



Front of tray using AR 400 plate



Front of tray using **ENDURA** plate



**ENDURA**'s homogeneous microstructure and thru-hardness exhibits a symmetric wear pattern seen in:

- **Loading zone** which sees heavy impact and is prone to cracking and extreme wear exposure
- **Dumping area** which is experiences high stress sliding abrasion