Weartech® SHS™ Hardfacing Provides

Better Wear Life and Price/Performance Ratio than Brinell 500 Plate

PROBLEM:
SLIDING ABRASION AND IMPACT

At a copper ore surface mine in the southwest United States, vibratory compactors push waste rock into the haulage road to provide a clean level surface for preventing costly tire punctures and other damage to haulpak trucks, loaders, excavators and other mine vehicles.

Brinell 500 quench & temper (Q&T) liner plate installed to prolong the life of the carbon steel compactor drums is prone to cracking and premature failure due to the extreme hardness of the rock at this mine.

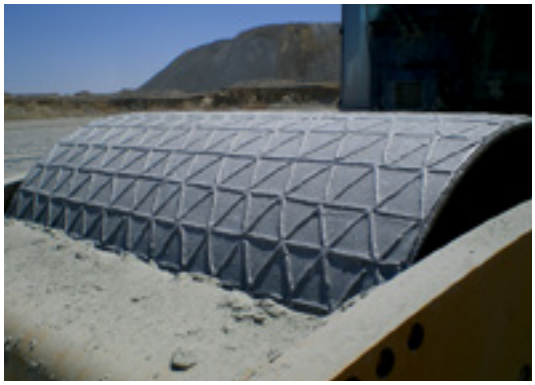
LINCOLN ELECTRIC

SOLUTION:
WEARTECH SHS OVERLAY HARDFACING

Weartech® SHS™9700U overlay is applied as hardfacing to a 3/16 in. or 0.187 in (5 mm) average thickness in a crosshatch pattern directly to the OD surface of the 1.575 in (40 mm) thick carbon steel compactor drums for wear resistance, traction and to help grip the waste rock.

Vibratory compactors push waste rock into haulage roads to provide a level surface

Brinell 500 Q&T liner plate installed on the compactor drums is prone to cracking and premature failure



Weartech SHS9700U overlay hardfacing applied in a crosshatch pattern provides longer wear life

RESULT:
WEARTECH SHS HARDFACING PROVIDES LONGER WEAR LIFE

The Weartech SHS9700U overlay hardfacing provides longer wear life, is easier to repair and requires fewer man hours to maintain. Due to the high hardness (67-70 HRc), toughness and wear resistance provided by Weartech SHS9700U, the mine can apply a crosshatch hardfacing pattern over a smaller percentage of the drum surface. This requires less overlay material and fewer man hours to apply, resulting in a better price/performance ratio than Brinell 500 Q&T liner plate.

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