

Product Group: Truck Steel Wheels

Bulletin No: 107

THE PROBLEM: The mine had a Mack Granite service truck which had original equipment 24.5 x 8.25" dual rear wheels, fitted with 24.5" tyres. In the rocky conditions at this mine site, rocks would continually get lodged in between the rear dual wheels, causing frequent tyre failure. In addition the 24.5" tyres were very expensive and often difficult to procure. The down time for this service rig was a real problem.

THE SOLUTION: MULLINS SPECIALISED WORKSHOP



The Mullins Specialised Wheel Workshop developed a solution after assessing the problem and evaluating the situation.

The truck was carrying a payload of fuel, oil, equipment and waste, which when combined with the tare weight of the truck was 20,000 Kg.



**Original
Dual Wheels**

In addition to the weight factor, when the rear dual wheels were removed, there was a very large brake hub drum which had to be cleared.

Mullins needed to provide a solution that would carry the required load, prevent the tyre failures, provide for cheaper tyre replacement costs and reduce down time.



Large Hub Drum

After performing a “Check & Measure” on the Mack Granites truck Mullins suggested a solution using a 14.00 x 22.5 wide single rim, which was fitted with a specially made plate centre to match the bolt pattern of this vehicle.

This Truck also had a 2 piece nut and thimble arrangement which was used to secure the existing dual wheels, so in order to remove the dual wheels and fit a wide single, Mullins needed to fabricate a custom made adaptor plate, to enable the original wheel nuts and thimbles to be used on the new wide single setup.

The final solution was to supply 14.00 x 22.5 Heavy Duty Wide Single Rims, fitted with a Steel Plate Centre, with a Custom Adaptor Plate also provided.

The new wheels were fitted with 445/65 R22.5 tyres which are much cheaper to purchase and are readily available from tyre wholesalers.

Since fitting, tyre blow outs on this rig are now rare, replacement tyre cost is now acceptable and wasteful down time has been eliminated.

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