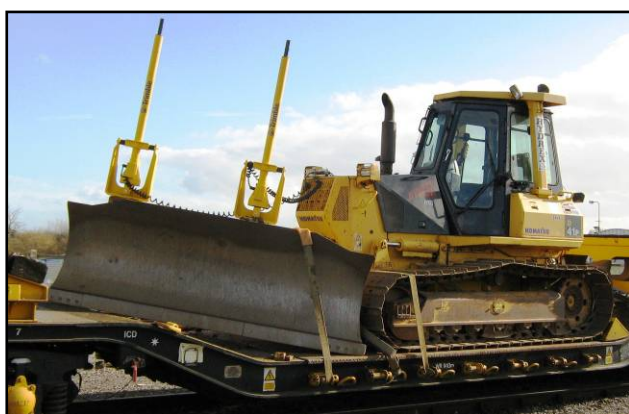
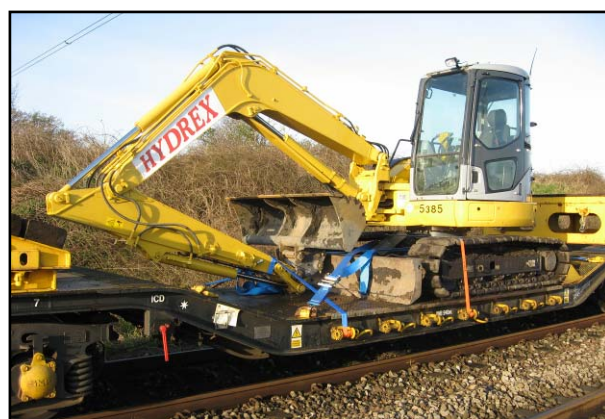


WAGON TYPE	COMMODITY
KWA Fastrol	Plant Machinery Bulldozers & Excavators
Carrying Capacity: Gross Laden Weight 43.50 tonnes Tare Weight 25.2 tonnes Max Weight in Well 14.00 tonnes. For Exact Loading Limits see individual Wagon on TOPS.	
Load Positioning: The Bulldozer or Excavator is to be positioned in the well such that the tracks at the rear of the vehicle are backed up against the steel chock. The vehicle whenever possible is to be positioned centrally across the width of the wagon with the vehicle track permitted to overhang the sides of the wagon although it is imperative that this is equal on both sides. The blade is to be offset to give the narrowest possible width. The blade is permitted to overhang the wagon deck by a maximum of 90 mm. The D4/D41 Bulldozer is permitted to be loaded offset laterally to accommodate the blade to be in gauge. Excavator arms shall be lowered to the wagon floor with the bucket tucked under. Where scraper blades are fitted these also need to be lowered. Integral locking devices where fitted shall be used to secure the operator cabs from rotating. Ramp and staging is positioned adjacent to the locating brackets and positioned over the four twistlocks. Care should be taken to confirm that the underside of the ramp/staging is clean of any debris to allow the staging to be correctly positioned and seated on the wagon.	
Stanchions: N/A	
Bolsters: N/A	
Dunnage: A steel chock is positioned at the rear of the wagon well, and the vehicle is to be reversed up tight and square to the chock.	
Unsecured Loads: Not Permitted.	



Securing Equipment:

Securing straps and tensioners are not supplied with the wagon.

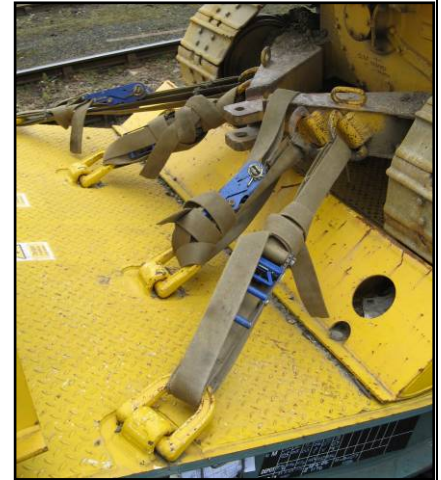
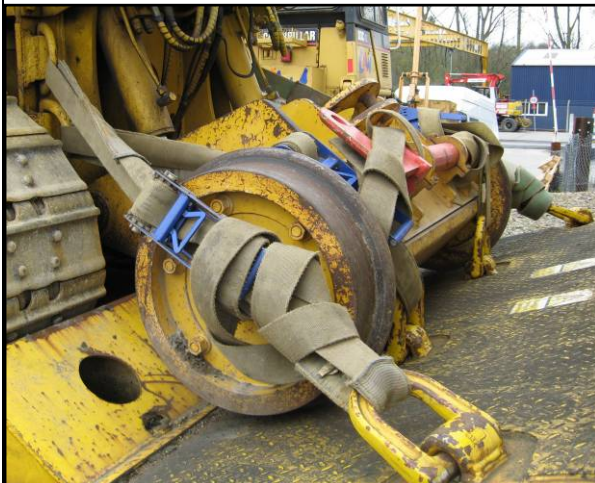
Bulldozer Type D4/D37/D41

The bulldozer has four 'D' rings to the rear of the vehicle that are permanently attached, two to the right and two to the left.

Dozer Upper/Outer Ring: - an endless ratchet strap is to be passed through the 'D' ring and secured to the outer 'D' ring position (on the same side) of the wagon.

Dozer Lower/Inner Ring: - an endless ratchet strap is to be passed through the 'D' ring and secured to the inner 'D' ring position (on the same side) of the wagon.

Note Position the ratchets in the best position to avoid obstructions and to permit ratchets to easily be released.



Where road rail wheels are present these should be lowered as far as possible and securing straps positioned over the top.

D4/D37 FRONT:

To the front of the bulldozer are two 'D' rings fitted to the outside of the blade 'A' frame. Straps are to be placed through the 'D' rings on both the bulldozer and the wagon and tensioned via a hand tensioner. The side cargo winches may be used as securing points if the 'D' rings along the wagon solebar are not accessible due to the position of the bulldozer in relation to the strap angle. Straps are to be placed across the tracks at the front of the bulldozer from cargo winch to cargo winch.

A strap is to be placed over the bulldozer blade and tensioned via the cargo winches.

