

The Yokohama 29.5R25 RT41 L4 and 29.5R25 RB31 L3 are Off-the-Road tires that have been specifically designed for replacement tire applications on various front end loaders. There are several manufacturers who produce equipment that use this particular size, e.g.: Caterpillar 980 (most models), Komatsu WA500, etc.

Some of these manufacturers provide these particular loaders with three-piece wheels from the factory as opposed to a five-piece configuration. Yokohama has experienced a sporadic condition where there is significant slipping/indexing of the rim and tire assembly on three piece wheels but not on the five piece configuration. This slipping/indexing creates a condition where the rubber in the bead area is damaged down to the bead bundle/core and can cause significant air loss over time.



*Bead damage due to
bead and rim slip on 3
piece wheel assemblies*

First, we recommend that when mounting a brand new Yokohama 29.5R25 RT41 or 29.5R25 RB31 onto the wheel, the air pressure is set to 120 psi, or max pressure the wheel is rated for, and allowed to sit for 24 hours to allow the tire to seat properly onto the wheel before usage. The air pressure should then be bled down to the proper recommended air pressure for the operating conditions.

In order to check if there is any slipping or indexing of the rim and tire assembly, the following procedure may be used. By marking both the rim and tire with one highly visible line as seen in the following picture, the rim and tire assembly are now registered. Any significant deviation between the two registration marks, creating a straight line, indicates that there is some slippage/indexing between the rim and tire.



*Red chalk mark which
registers the rim and
tire assembly*

If the initial inflation process recommended is completed and the rim and tire assembly slipping/indexing still persists via movement of the registration markings, Yokohama recommends taking the following steps:

First, Yokohama highly recommends replacing the current three piece wheel assembly, with a proper CNC machined assembly, which has been sand blasted for a proper finish. This will provide the proper mating surface in order for the tire to seat properly and prevent any wheel and tire slippage or indexing e.g.: Rimex Part No. 825-025-0164-01. Please consult your wheel manufacturer for more information.



Typical 3-Piece Wheel



CNC Machined BSB and Back Section

Second, Yokohama has not experienced this bead rim slip condition on five piece wheels configurations and the user has the option to upgrade to a five piece wheels assembly. Please consult your wheel manufacturer for more information.

*If you need our assistance, please contact your Yokohama Off-the-Road Sales Representative or you may call **1-800-423-4544** and press **5** to speak with the Yokohama Off-the-Road Department.*