

Tyre Damage Analysis

Below are some of the case analysis according to our formal experience, we show them to you to have a better knowledge about tyre damage and its cause. We hope to draw attention to tyre maintenance and daily check. They are very important to our own driving safety and extend a tyre life.

TYRE CROWN INJURY

<p style="text-align: center; font-weight: bold; color: #c00000;">Tyre Crown Pattern Breaking Injury</p>  <p style="font-size: small;">Steering firstly while the vehicle is motionless during starting.</p>	<p style="text-align: center; font-weight: bold; color: #c00000;">Tyre Crown Impact Blast</p>  <p style="font-size: small;">Impact burst is caused by the impaction of foreign object on the tread when the tire pressure is high.</p>	<p style="text-align: center; font-weight: bold; color: #c00000;">Tyre Crown Abrasion Under Lower Air Pressure</p>  <p style="font-size: small;">Tire pressure is low and the tread is embedded into the tire. Because the carcass is tightened by the steel cord in the steel belt, only small part of the tread is embedded into the tire and the rubber pattern in the tread is deformed and is rubbing each other, which caused such abrasion.</p>
<p style="text-align: center; font-weight: bold; color: #c00000;">Eccentric Wear of Tread</p>  <p style="font-size: small;">The wear, deformation and displacement of the mechanical parts makes the camber of the vehicle being changed, or the repaining and/or calibration of vehicle is not correct, which makes the tread not being vertical to the road surface and caused the eccentric abrasion, and the wearing is faster.</p>	<p style="text-align: center; font-weight: bold; color: #c00000;">Tread Wear Under high Pressure</p>  <p style="font-size: small;">The pressure is high, so the grounding area of the tire is small, which caused the tread center is seriously worn.</p>	<p style="text-align: center; font-weight: bold; color: #c00000;">Dot Wear</p>  <p style="font-size: small;">It is caused by the punctuation in the tire tread by the sharp object such as bolt and nail etc.</p>

TYRE SHOULDER DAMAGES

<p style="text-align: center; font-weight: bold; color: #c00000;">Punctuation and Delaminating</p>  <p style="font-size: small;">The deformation in radial direction on the radial tire is big, so it may be scrapped or punctured by the object in the rough road, which may cause the penetration of muddy water or sands. If they are not found or treated in time, it will cause the delaminating by the rushing of the exposed steel cords of the damaged area.</p>	<p style="text-align: center; font-weight: bold; color: #c00000;">Shoulder Cuts</p>  <p style="font-size: small;">When driving, the tire is cut by the sharp object such as the stone and metal parts or by the embedded parts of suspension plates etc. at the same time, it may cut and damage the shoulder or may damage the steel cords at the end of the steel belt, or it may be caused by the tire burst.</p>	<p style="text-align: center; font-weight: bold; color: #c00000;">Shuolder Corp & Pattern Block Dropping Off</p>  <p style="font-size: small;">Tire shoulder is pushed and scratched by the objects such as the roadbed etc, or try to pass in force or skidding to start under heavy load etc, which may cause the chunking of the tire shoulder.</p>
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BEAD DAMAGE

<p style="text-align: center; font-weight: bold; color: #c00000;">Rim Cut</p>  <p style="font-size: small;">When mounting the tire, the rim is not suitable or it is not well aligned, the guard ring is deformed and cuts the beads section which will cause such damage.</p>	<p style="text-align: center; font-weight: bold; color: #c00000;">Rim Break</p>  <p style="font-size: small;">Because of rim fatigue and nonstandard wheel rim, as well as high air pressure of tire and badly overloading, wheel rim gets widely break so lead to wheel rim exposure.</p>	<p style="text-align: center; font-weight: bold; color: #c00000;">Flange Cuts</p>  <p style="font-size: small;">The rim flange is crack, the bead section does not has the pressure from the rim flange under the pressure of the inner force, partial of the bead is embedded, and it is damaged by the sharp flange crack when traveling.</p>
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SIDEWALL DAMAGES

<p style="text-align: center; font-weight: bold; color: #c00000;">Chain Burst</p>  <p style="font-size: small;">When using the tire with low pressure under heavy load, the carcass fabric cords is fatigue and broken, which will cause the chain burst.</p>	<p style="text-align: center; font-weight: bold; color: #c00000;">Side Wall Scratch</p>  <p style="font-size: small;">It is caused by the punctuation or scraping of the object when using the tire.</p>	<p style="text-align: center; font-weight: bold; color: #c00000;">Foreign Material Between Side Wall</p>  <p style="font-size: small;">When the vehicle is traveling with twin tire, there are some foreign between the two tires, where the steel cords of the side wall may deform and may cause such damage.</p>
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