



## Tyre ageing and replacement

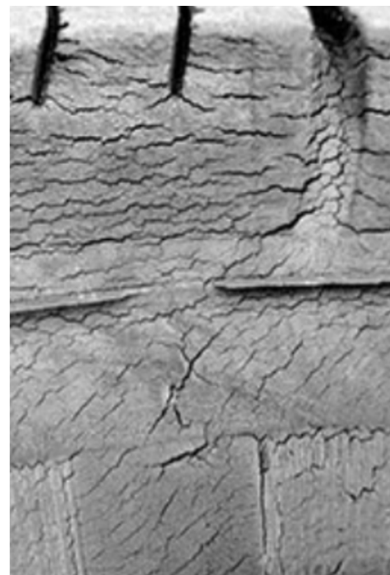
1

### Rubber hardens over time

Which will:

- **Reduce the flexibility of the rubber** in the tread and wall to a hard “wooden” feel.
  - **Reduce wet and dry grip** for braking performance and handling.
  - **Reduce ride comfort** with less absorption by the tyre of road bumps and drain covers.
- but**
- **Increase tyre durability** with a reduced wear rate from tyre hardening.

Anti-oxidising chemicals in rubber compounds used in tyres help slow down the natural ageing process of untreated rubber.



14/06/2019

Tyre ageing and replacement

2

2

## How old are “new” tyres?

According to guidelines by the BRV (German national association for the tyre and vulcaniser trade) tyres are rated as:

- **‘Brand New’** if stored correctly for up to 3 years and
- **“As New”** if stored for up to 5 years.

Tyres should be stored in a cool, dry and dark place to reduce ageing of tyre stocks.



14/06/2019

Tyre ageing and replacement

3

3

## Factors with tyre ageing

- **Heat** - research has found that tyres age more quickly in warmer climates and also exposure to sunlight and coastal climates can hasten the ageing process.
- **Storage** – tyres held in store by a distributor or fitter will age more slowly than tyres put into service on a car. But they age nonetheless.
- **Underinflation** - underinflation causes more tyre wear.
- **Limited mileage** - tyres on a car that's driven only occasionally will age differently from those on a car used on a daily basis.
- **Conditions of use** – kerb scuffing, puncture repairs, regular rotation of tyres and routine tyre inspections are factors for tyre life.

14/06/2019

Tyre ageing and replacement

4

4



BlackCircles Support

Callum, Apr 9, 17:30 BST  
Good afternoon,

Thank you for your email.

[BlackCircles.com](https://www.blackcircles.com) will sell tyres up to 5 years old as brand new. We do not guarantee what age the tyres you order will be as they come from several of our suppliers large warehouses.

If we can help at all further please do not hesitate to get in touch.

Kind Regards,

Calum  
Customer Service Advisor

14/06/2019

Tyre ageing and replacement

5

A member said "the last time I bought tyres through Black Circles I found the **tyres they supplied were at least 12 months old** when I got home". He now needs to order some more replacement tyres for his RV8 but as the car only covers a low mileage, they need to last age wise as he never wears them out. He added "in replacing the tyres I **want to ensure that they are new tyres** which were made within the last couple of months. So I am **looking for tyres with a near full ten years of life**". He contacted Black Circles again asking them "can you guarantee that the tyres will be of at least this year's manufacture?" The reply was that they **could be up to 5 years old as "brand new"**.

5

## Will we see a 10 year ban on tyres?

- **Tyres deteriorate with age** reducing wet and dry grip, braking effectiveness, handling and ride comfort with an increased risk of tyre failure.
- **Maximum tyre age** - how will anyone drafting legislation set a maximum tyre age?
- **Focus at present** is on a 10 year max for HGVs and PSVs.
- **Continuation of guidance** – it's likely we will see guidance continue to be issued recommending road tyre replacement for motor cars at a maximum of 10 years from the date of manufacture or 7 to 8 years from fitting tyres, whichever is the sooner.

14/06/2019

Tyre ageing and replacement

6

6