3.0.0 TYRE MARKINGS

3.1.0 COMMERCIAL TYRE MARKING

- Markings is usually found on the sidewall of a normal truck tyre.

3.2.0 POSITIONS OF TYRE MARKING

POSITION 1

The tyre's cross-section width is the linear distance, in millimetres, between the outside edges of the sidewalls of an inflated tyre at its widest point, not including any projections due to markings, patterns, protecting ribs or the rim.

POSITION 2

The cross-section height is half of the difference between the total diameter of the tyre and the nominal diameter of the rim, expressed as a % of tyre width. Over time, tyres have changed in shape from almost circular to flatter and wider. This has changed the aspect ratio (a/r) between the height and width of the tyre's cross-section from 100% to 70%, 60%, 50% and even smaller values.

POSITION 3

Radial ply tyres are identified by the letter "R" inside the measurement markings on the tyre sidewall.

315/80 R 22.5

On conventional tyres, the R is replaced by a "-".

POSITION 4

22.5 refers to the rim diameter (in inches)

POSITION 5

The maximum load capacity, in case of single fitment, is identified by the load rating.

POSITION 6

The maximum load capacity, in case of twinned fitment, is identified by the load rating.

POSITION 7

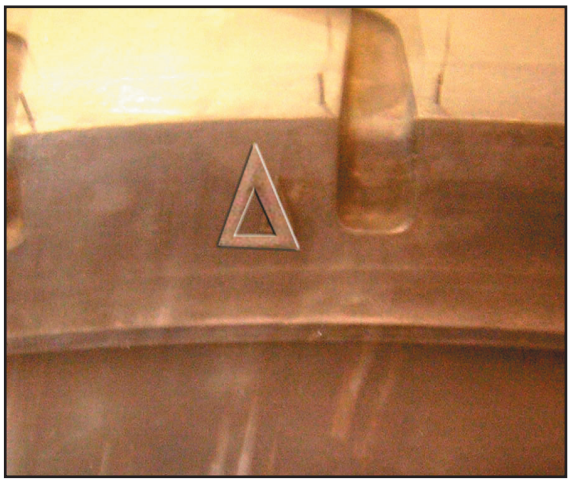
The speed symbol indicates the maximum speed at which the tyre may be used.
Any given vehicle may only be fitted with tyres having a speed symbol at least equal to or above that stated in its log-book.
M&S (mud & snow) tyres have a speed symbol lower than the symbol the vehicle normally requires. In some countries, a sticker stating the tyre's maximum speed must be fitted in a position clearly visible to the driver. This speed may not be exceeded while the tyres concerned are being used.

POSITION 8

“Single point” marking = loads permitted (in single/twinned fitment) at the various speeds.

POSITION 9

Position of the wear indicator strip (1.6 mm thick) fitted in the main tread grooves.



POSITION 10

The approval mark and ECE number confirm that the tyre complies with the requirements of the ECE R54 standard.

POSITION 11

ECD = Enhanced Carcass Durability or

EC : special monofilament construction

(recommended mainly for mixed and off-road use).

POSITION 12

The “DOT” symbol confirms compliance with U.S.A. tyre regulations.

POSITION 13

The D.O.T. serial number is an alphanumeric code allowing identification of every tyre’s construction characteristics in compliance with the U.S.A. regulations on tyres.

3.3.0 D.O.T. MARKINGS REQUIRED IN ADDITION TO THE EUROPEAN STANDARDS

- DOT symbol
- DOT serial number
- Possible loads (e.g. G, H or J)
- Current permitted load carrying capacity (e.g. 6175 lbs / 2800 kg)
- Permitted cold inflation pressure (e.g. 110 psi / 760 kPa)
- Tyre wear indicators (T.W.I.)
- Speed restriction (if applicable, e.g. 80 km/h)
- Number of plies on centreline and sidewall, and the ply material (e.g. 1 ply steel)

Current D.O.T. Serial Number Markings (12 items)

NJ	37	R7AW	1201	(379 ◄)
Make (Factory)	Size	Type	Week/Year	(1990÷99)

Principal Makes (P/M):

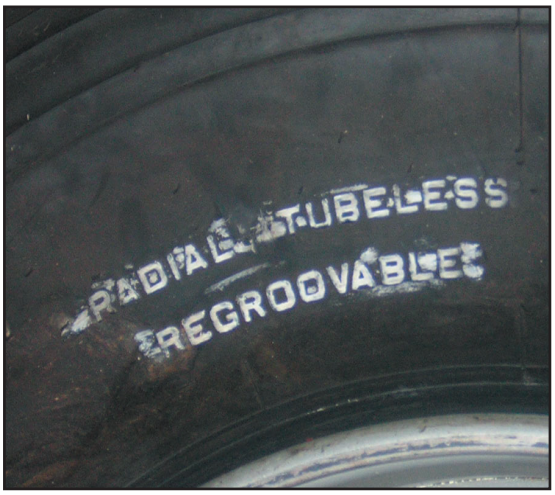
L = Uniroyal VW = Firestone
F = Michelin E = Bridgestone
D = Dunlop C = Continental
N = Goodyear X = Pirelli

European factories
(some examples):

NB = Wolverhampton, GB
ND = Philippsburg, Germany
NJ = Colmar-Berg, Luxembourg
CO = Adapazari, Turkey
7U = Debica, Poland
NW = Uitenhage, South Africa
NC = Amiens, France
NE = Fulda, Germany
M1 = Casablanca, Morocco
PA = Izmit, Turkey
H3 = Sava, Slovenia
PK = Freeport (PB before 2000)

3.4.0 SPECIAL TYRE MARKINGS

This wording indicates that the tyre can be regrooved (generally up to 3 mm) and also that the tyre is a radial tyre and tubeless too.



The letters M&S indicate that this is a winter tyre or is capable of operating on mud and snow.

The marking “SAFETY WARNING” give you a lot of information about fitting and inflating operation.