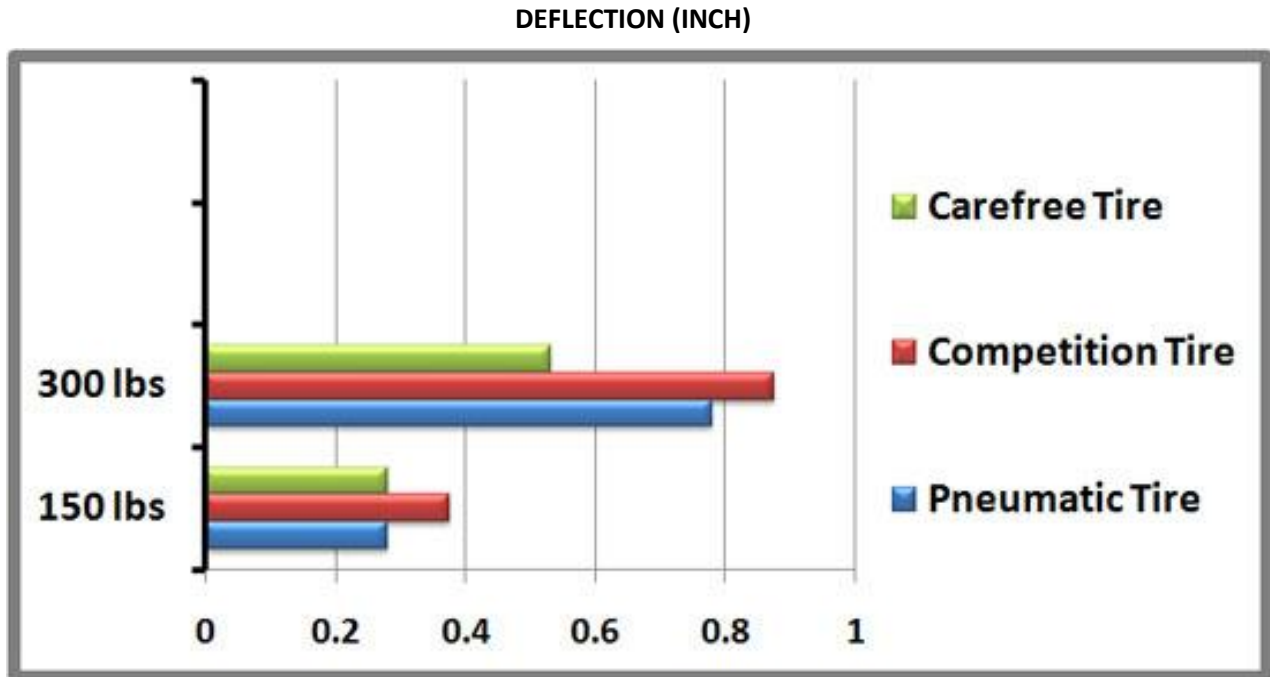


## DYNAMIC LOAD TEST

A simulation of working environments of tire  
150lbs & 300lbs @ 100RPM's for 24,000 revolutions



Carefree Tire's unique design prove much better in maintaining original characteristics after flexing under load and have shown less sidewall stress after thousands of flex cycles than the leading competitor's Flat Free tire.

The primary cause of rolling resistance is hysteresis, and loss of tire pressure.

**Hysteresis (tire related):** the tendency for a rubber tire to flex more and bounce back slowly, thus exhibiting more rolling resistance and proving more difficult to roll.

**Loss of Tire Pressure:** Lower air pressure results in even more flexing of sidewalls. This energy conversion in the sidewalls increases rolling resistance and can also lead to tire failure.

**Polyurethane does not suffer from hysteresis the way rubber does which means less deflection, and since Carefree Tire does not have air, it will never lose air pressure to have it affect rolling resistance.**