

WEAR RATE OF COMPOSITION BRAKE PADS. OF BRAKE TORQUE

3. EFFECT

The report considers the effect of brake torque on the wear rate of composition brake pads. The effect of brake torque on the wear rate of brake pads against a cast iron brake disc consisting of a complete annulus was investigated.

The report concludes that:

- In stops from an effective road speed of 100km/h the brake torque did not appreciably affect the wear rate. The small changes were adequately described by the predicted changes in the peak surface temperature of the disc.
- The wear rate in stops from 150km/h was strongly affected by brake torque. The changes were not adequately described by changes in the peak surface temperature. The results indicate that wear is close to being proportional to brake torque.
- The results support the contention that two different wear regimes can operate in the range of conditions which can be experienced in service.