



BAIYUN
Brake Expert



BRAKE LINING TROUBLE TRACER

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APPEARANCE

Build up dirt between lining and brake shoe

MAIN REASONS

- Shoe radius out of line
- Shoe platform not blast cleaned and painted properly
- Shoe platform not parallel
- Lining riveted incorrectly

POSSIBLE EFFECTS

- Cracks in the lining material or crack in drum surface
- Loose linings
- Squeal and noise
- Improper cleaning causes rust scale to build up and lift the lining from the shoe

SOLUTION

Replace linings and ensure shoe is clean and free from contamination before lining fitment



APPEARANCE

Poor bedding of friction material

MAIN REASONS

- Drum diameter is larger than lining radius
- Bedding-in period for the lining was too short
- Drum wear

POSSIBLE EFFECTS

- If the wear pattern differs across the axle, vehicle pull can result; also excessive brake noise
- Low deceleration
- Either low or very high deceleration, with high deceleration the linings may lock on to the drum
- If the wear pattern differs across the axle, vehicle pull and excessive noise can result

SOLUTION

Replace linings and ensure the correct lining radius to drum diameter is selected, or extend bedding-in period



APPEARANCE

Deep irregular circumferential grooves on the brake lining

MAIN REASONS

- Large particles loose in the brake
- Very poor drum condition and maintenance

POSSIBLE EFFECTS

- Lining wear out quickly
- Squeal and noise

SOLUTION

Avoid contamination. Replace linings and grind or replace drum as appropriate



APPEARANCE

Grooves on the brake lining surface

MAIN REASONS

- Small loose particles in the brake
- Insufficient drum cleaning at replacement

POSSIBLE EFFECTS

- Lining wear out quickly
- Squeal and noise

SOLUTION

Replace linings and avoid brake operation in dusty environment. Grind or replace drum as appropriate



APPEARANCE

Burnt the lining

MAIN REASONS

- Faults in brake mechanism
- Sticking brake shoes (weak return springs)
- Excessive use of brakes from high speed
- Wrong brake cylinders/air chambers or levers
- Overloaded vehicle
- Incorrect brake proportioning between tractor/trailer units

POSSIBLE EFFECTS

- Lining wear out quickly
- Vehicle pull and excessive brake noise
- Deceleration too low

SOLUTION

Replace linings, avoid overworking brakes and ensure brake components are correct and are in good condition



APPEARANCE

Cracking on the surface of brake lining

MAIN REASONS

Caused by excessive brake temperature, i.e. when brake is cold on motorway then having to perform a sudden stop i.e. off a slip road. Rapid temperature input does not allow for heat soak from material into brake system

POSSIBLE EFFECTS

- This condition has no effect on the integrity or performance of the lining
- Penetration of the crazing is usually no more than 1mm deep
- Wear through with normal brake use and
- has no effect on the lining

SOLUTION

Avoid high-speed heavy duty braking from cold



APPEARANCE

Dirt on the brake lining surface

MAIN REASONS

- Poor drum condition, e.g. heat crazing
- Wrongly adjusted or worn axle bearings

POSSIBLE EFFECTS

- Lining wear out quickly
- Squeal and noise
- If linings not 100% bedded-in, low brake efficiency can result

SOLUTION

- Replace linings, replace wheel bearing and replace or grind drum as appropriate
- Avoid overheating brake



APPEARANCE

Lining surface tapered

MAIN REASONS

- Brake shoes misaligned with the brake drum
- Distorted brake shoe or brake drum turned on taper

POSSIBLE EFFECTS

- The linings may lock on to the drum when braking from high speeds
- Vehicle pull and excessive brake noise may occur

SOLUTION

Replace or grind/machine drum. Replace brake shoe anchor pins or parts that locate brake shoes



APPEARANCE

Dirt on the brake lining surface

MAIN REASONS

- Faults in brake mechanism
- Sticking brake shoes (weak return springs)
- Excessive use of brakes at high speed
- Overloaded vehicle
- Too large air chambers

POSSIBLE EFFECTS

- Lining wear out quickly
- Vehicle pull and excessive brake noise
- Disintegration of lining
- Low deceleration

SOLUTION

Replace linings, avoid overworking brakes and ensure brake components are correct and are in good condition



APPEARANCE

Step on the brake lining surface

MAIN REASONS

- There may be a step in the brake drum surface
- General drum wear

POSSIBLE EFFECTS

- Rapid lining wear
- If the wear pattern differs across the axle, vehicle pull and excessive noise can result




SOLUTION

Grind/Machine drum surface or renew (a drum grind may incur oversize lining fitment)






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