MAGNER®

DISC BRAKE TROUBLE TRACER CHART

NORMAL WEAR Recommend periodic maintenance

METAL RESIDUE



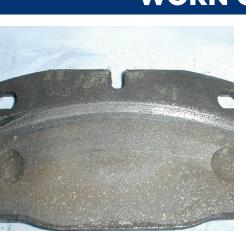
APPEARANCE

Metal residue on friction surface

- Water leakage, "quenching" of the rotor causes rotor fragments to break away, transferring them to the friction material
- Particularly noticeable if heavy braking on poorly bedded rotors

- Has no detrimental effect on braking performance
- May cause rotor damage or brake squeal
- In extreme instances, replace rotors and pads

WORN OUT PADS



APPEARANCE

Friction material completely worn out

No periodic control of pad wear

- Vehicle may pull to one side
- Damage to rotor
- High squeal and noise

SOLUTION

Replace pads



Small cracks in center of pad

Piston bends in back plate

- Lubricate caliper slides and guide pins

ASHING



• Partially charred friction material (whitish outer edges)

 Prolonged excessive pad temperature due to intensive use or dragging

- Reduction in initial braking efficiency
- Excessive material deterioration
- Material becomes brittle, chips and cracks
- Excessive abnormal wear

 Providing the damage is not excessive, pads can be used and will be effective under normal use

SURFACE CONTANIMATION



 Friction material contaminated with oil. grease or brake fluid

CAUSE

Spillage during maintenance

EFFECT

Vehicle may pull to one side

Reduction in braking performance SOLUTION

Replace pads

UNEVEN WEAR WITHIN A SET



APPEARANCE

One pad within caliper set excessively worn

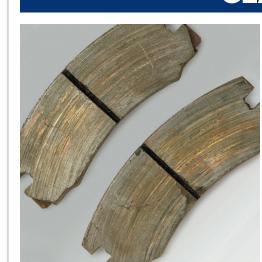
 Caliper guide pins / piston sticking **EFFECT**

- Brakes pull to one side
- Uneven, rapid pad wear

SOLUTION

- Replace pads and service caliper
- Replace with new loaded calipers

GLAZING



APPEARANCE

Pad friction surface "glazed"

High intermittent pad temperature for short

- Temporary reduction in braking performance
- Can be remedied by "normal" use

UNEVEN WEAR



APPEARANCE

• Uneven wear on pad surface

CAUSE

Irregularly worn brake disc (wear lip)

EFFECT

- Squeal and brake pedal pulsation
- Premature pad wear

SOLUTION

Replace rotors and pads

BACKPLATE DAMAGE



APPEARANCE

Damaged backplate

CAUSE

Incorrect assembly

Excessive force used during installation

- Reduced braking efficiency, irregular wear, noise and judder
- In extreme instances, products will not fit in

TAPERED PADS



APPEARANCE

- Uneven wear, tapered pads **CAUSE**
- Distorted caliper Caliper slides sticking
- Piston sticking
- **EFFECT**
- Premature pad wear

Excessive caliper clearance

- Uneven braking pressure Noise and squeal
- SOLUTION Replace pads
- Service or replace calipers
- Replace with new loaded calipers

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