





CV TROUBLE TRACER - BRAKE PADS AND DISCS



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APPEARANCE	Disc featur	ing scored	surface.

DEMEDY	Dl thd-
EFFECT	Reduction in braking performance and possible inbalance on the affected axle during braking.
CAUSE	Pads fitted with friction material too harsh for the disc or new pads assembled on excessively worn out discs.
AFFLANANC	Disc reaturing scored surface.

- Replace the pads.
- · Check disc condition and minimum thickness.
- If necessary, replace the disc.
- · Check for the quality of the spare parts used.



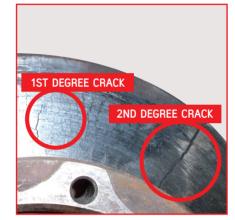
APPEARANCE Blue stripes on the disc indicating a physical change due to

CAUSE Intensive use of brakes for prolonged braking or improper downhill braking.

> Brake disc overheating which may result in contact surface distortion and cracks.

 Compulsory replacement of brake discs and pads. REMEDY

• During the first 250 km after replacement, sharp braking should be avoided in order to allow for the correct bedding-in of the newly fitted components.



APPEARANCE Disc surface features 1st and 2nd degree crack.

Too intensive use of brakes due to the track features or to the carried load **EFFECT** Possible unexpected disc mechanical collapse, particularly

· Compulsory replacement of brake discs and pads, particularly with 2nd degree crack, when one of the cracks is travelling from OD to ID.

• Brake calipers shall be checked.

with 2nd degree crack.



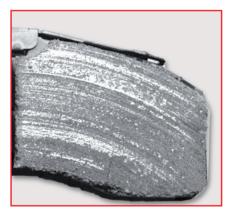
APPEARANCE Contaminated pad friction material.

CAUSE	Contamination by an oily substance or solvent.
EFFECT	Reduction in braking performance and possible imbalance during braking.

Replace the pads.

· Check the discs on the axle.

· Identify any fluid leaks from the hubs or other nearby



APPEARANCE Glazed pad friction material.

CAUSE	Very low duty applied on the brakes, i.e. brake appli tions with low speed and low pressure.			
EFFECT	Reduction in braking performance and typical	nois		

REMEDY

EFFECT

• If glazing is not too heavy can try to recondition the surface by some mileage of medium/hard brake duty, otherwise replace the pads.

Check the disc condition and minimum thickness.



APPEARANCE Detached friction material.

CAUSE	Possible excessive load or heavy braking, along w choice of unsuitable parts.	ith the
EFFECT	Reduction in braking performance and typic (squeal) while braking.	cal noi

· Replace the pads.

Check the disc condition and minimum thickness.

• Despite having a wear indicator, it is necessary to check the pad condition every normal garage brake control visit and/or every six months.



APPEARANCE Uneven brake pad wear.

One of the calipers has become stuck or does not return correctly to the rest position. Reduction in braking performance and possible inbalance on the involved axle, during braking.

Replace the pads.

Brake calipers should be checked.



APPEARANCE Friction includes metal pick-up.

noise during braking.

CAUSE	High temperature generated between brake pad and disc in wet conditions.
EFFECT	Wear of the affected brake disc with typical metal rubbing

REMEDY

 Replace the pads. Check disc condition and minimum thickness.

• If necessary, replace both discs on the axle.



APPEARANCE Pad with surface cracks.

CAUSE	Excessive load or high friction material temperature.
EFFECT	Possible detachment of friction material resulting in a reduction in braking performance.

Replace the pads.

• Check for correct caliper operation.

Check disc condition and minimum thickness.

• If necessary, replace both discs on the axle.



APPEARANCE Excessively worn out discs and pads

CAUSE	Possible contamination of the friction material by sand, mud or earth or incomplete return of the caliper gear.
EFFECT	Excessive wear of one or more brake pads, resulting in damage where the pad has not been fitted with a wear

indicator. · Replace the pads.

Check disc condition and minimum thickness.

• If necessary, replace both discs on the axle.



APPEARANCE Pads on the same axle featuring uneven wear

CAUSE	Incorrect return of one caliper on the same axle.
EFFECT	If the axle involved is the directional one, this fault may result in vehicle instability during brake release.

• Replace the pads.

 Check for the proper caliper operation. Check disc condition and minimum thickness.

If necessary, replace both discs on the axle.



APPEARANCE Damaged edges to the friction material (edge-crumbling

CAUSE	Brake pad has become stuck in the caliper. The parts used do not comply with the correct sizes and specifications.
FFFFCT	Farly pad deterioration and uneven disc wear

Replace the pads.

Check for correct caliper operation.

· Check disc condition and minimum thickness.

• If necessary, replace both discs on the axle.



