

**§215.107**

pronounced blue black discoloration; or

(e) The surface of the plain bearing journal on the axle, or the fillet on the axle, has—

- (1) A ridge;
- (2) A depression;
- (3) A circumferential score;
- (4) Corrugation;
- (5) A scratch;
- (6) A continuous streak;
- (7) Pitting;
- (8) Rust; or
- (9) Etching.

**§215.107 Defective plain bearing box: General.**

A railroad may not place or continue in service a car, if the car has—

(a) A plain bearing box that does not contain visible free oil;

(b) A plain bearing box lid that is missing, broken, or open except to receive servicing; or

(c) A plain bearing box containing foreign matter, such as dirt, sand, or coal dust, that can reasonably be expected to—

- (1) Damage the bearing; or
- (2) Have a detrimental effect on the lubrication of the journal and the bearings.

**§215.109 Defective plain bearing box: Journal lubrication system.**

A railroad may not place or continue in service a car, if the car has a plain bearing box with a lubricating pad that—

(a) Has a tear extending half the length or width of the pad, or more;

(b) Shows evidence of having been scorched, burned, or glazed;

(c) Contains decaying or deteriorated fabric that impairs proper lubrication of the pad;

(d) Has—

(1) An exposed center core (except by design); or

(2) Metal parts contacting the journal; or

(e) Is—

(1) Missing; or

(2) Not in contact with the journal.

**§215.111 Defective plain bearing.**

A railroad may not place or continue in service a car, if the car has a plain bearing—

(a) That is missing, cracked, or broken;

(b) On which the bearing liner—

(1) Is loose; or

(2) Has a broken out piece; or

(c) That shows signs of having been overheated, as evidenced by—

(1) Melted babbitt;

(2) Smoke from hot oil; or

(3) Journal surface damage.

**§215.113 Defective plain bearing wedge.**

A railroad may not place or continue in service a car, if a plain bearing wedge on that car is—

(a) Missing;

(b) Cracked;

(c) Broken; or

(d) Not located in its design position.

**§215.115 Defective roller bearing.**

(a) A railroad may not place or continue in service a car, if the car has—

(1) A roller bearing that shows signs of having been overheated as evidenced by—

(i) Discoloration; or

(ii) Other telltale signs of overheating such as damage to the seal or distortion of any bearing component;

(2) A roller bearing with a—

(i) Loose or missing cap screw; or

(ii) Broken, missing, or improperly applied cap screw lock; or

(3) A roller bearing with a seal that is loose or damaged, or permits leakage of lubricant in clearly formed droplets.

(b)(1) A railroad may not continue in service a car that has a roller bearing whose truck was involved in a derailment unless the bearing has been inspected and tested by:

(i) Visual examination to determine whether it shows any sign of damage; and

(ii) Spinning freely its wheel set or manually rotating the bearing to determine whether the bearing makes any unusual noise.

(2) The roller bearing shall be disassembled from the axle and inspected internally if—

(i) It shows any external sign of damage;

(ii) It makes any unusual noise when its wheel set is spun freely or the bearing is manually rotated;