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**Subject: Maximum Hub Temperature Allowance**

This Bulletin specifies the normal working and maximum allowable temperatures for TMC drum and disc brake hubs.

Hub Type	Normal Operating Temperature	Maximum Allowable Temperature
Drum	60 to 100 deg C	120 deg C
Disc	100 to 140 deg C (See note 2)	140 deg C (See note 2)

- 1) The hubs that show excessive heat would generally look discoloured or greyish in appearance. These hubs would be too hot to touch in a comfortable manner. A comparison should be made against other hubs/wheel ends fitted in the same trailer.
- 2) The Disc brake hub general operating temperatures are higher than the drum brake operating temperatures. Although disc brake hubs and rotors can operate safely under much higher temperatures > 200 deg C, the normal operating temperatures should be constrained to the maximum recommended operating temperatures of the axle grease. For Lithium Complex NLGI grade 2 type grease typically used in the wheel ends, the maximum operating temperature is 140 deg C. Intermittent use of the disc brake wheel ends at the higher temperatures (> 200 deg C) is permitted.
- 3) Note if the normal hub temperatures exceed the maximum allowance, then the grease should be inspected and potentially replaced during an upcoming service interval. Overheated grease would have a charred or burnt appearance, have a decrease in viscosity, and would solidify or become oily and tacky over time. The problem could compound as a loss in the ability to support the load, resulting in a premature bearing failure.