

NorTronic Lends its Hand to PDI Process



Overview:

In this application we see the NorTronic perform a series of checks on pre-tightened fasteners found on a mini dumper truck. The company follows a strict process designed with safety in mind to help ensure a high standard of quality control over the vehicle, with these checks forming part of the Pre-delivery-Inspection (PDI) process. One particular area checked for correct application of torque is the Roll-Over-Protection-System (R.O.P.S) - this, amongst many checks is considered a critical area where torque must be applied within a tight tolerance.



Application

Verification of pre-tightened joints prior to delivery of mini dumper truck

Solution

NorTronic Digital Torque Wrench used to Audit pre-tightened bolts

Solution:

It is important to audit the joint for accuracy and to ensure the product's quality, safety and reliability isn't compromised. The Norbar NorTronic Digital Wrench was pre-programmed with a target torque value and then used to audit the fasteners. During this operation the wrench recorded and displayed angle data to the user, which is then used to determine if the fastener has moved-on, which would indicate under-torque, or whether the results show correct application of torque with zero move-on i.e. no angle recorded.

Equally important are the wheel nuts, which are initially torqued to 120 N·m, and then during the PDI process are checked in the same manner as the R.O.P.S. Seen in the image is the torque value recorded by the wrench, showing a value of 120.8 N·m, which was well within the accepted tolerance.



Within our family of distributors we share applications and can often recommend solutions that have been tried and tested elsewhere.

