

Justification:
Safety Instruction

(Maintenance)

Private Owner Circular Letter 662 Issue 2

Title

TF25 Bogies -
Inspection of
Wheelset Lift
Bracket (cast
frame type) Fixing
Bolts

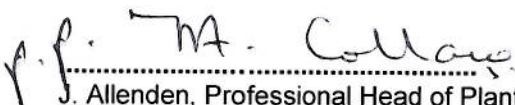
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AUTHORISATION

Authorised by:


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J. Allenden, Professional Head of Plant and T&RS

Amendment Record

Issue	Date	Amendment
1	7-9-2012	First issue
2	18-2-2013	Second issue – complete re-write.

1. **INTRODUCTION**

NIR 2852 (Initial) identified that several fixing bolt assemblies on the wheelset lift brackets on TF25 bogies had become loose with one bracket found detached and hanging down. Following further consultation and clarification with other parties in the rail freight industry, POCL 662, Issue 2 has been produced to instruct Private Owners on the immediate inspection regime required and the correct method of securing the fixing bolt assembly on the wheelset lift brackets.

2. **INSTRUCTION**

Private Owners shall carry out the following actions on "cast frame" TF25 bogies fitted with wheelset lift brackets, if not previously undertaken:

- a). Carry out an initial one-off visual check of the wheelset lift brackets fitted with M16 bolt assemblies as soon as possible and certainly within four weeks time of the receipt of the POCL,.
- b). Check that all the four wheelset lift brackets are in place.
- c). Check for damage and security of the fixing bolt assemblies.
- d). Where any bolt assemblies are missing undertake the following:
 - Make sure the radial arm is seated correctly on the bearing (refer to the appropriate Maintenance Plan for further details). Examine the condition of the lift bracket body and connecting surfaces to the radial arm assembly to ensure no burrs, material roll-over, indentations and damage are present and that surfaces are clean and free of contamination.
 - Lever the bracket up, with it hinging on the spiral pin assembly, until the bracket including hole arrangement, is correctly aligned with the radial arm. This operation may require a degree of force to complete. Note, where the wheelset lift bracket can be swung and located easily into position (by hand, without force), then this indicates wear in the spiral pin holes and a loss of friction grip in the spiral pin assembly. Assessment of the affected spiral pin assembly by an approved maintainer will be required before the bogie can be returned to service.
 - Fit a new Grade 8.8 M16 x 60mm hexagonal head bolt, feeding it through the Ø 18mm drilled hole from the wheelset bearing side. Ensure all threads are clean, dry and free of contamination and apply Loctite 243 to the bolt threads where the nut is located. Secure with a new Grade 8 M16 hexagonal self locking nut (Philidas Mk 5 or equivalent) and torque tighten the nut to 210 Nm.
- e). If any fasteners are found loose, renew the fasteners, ensuring all threads are clean, dry and free of contamination and apply Loctite 243 to the bolt threads where the nut is located. Torque tighten the nut to 210 Nm.

- f). Advise the Senior PWRA Engineer on completion of the one off check and of details of all missing and loose wheelset lift bracket fixing bolt assemblies.
- g). On wheelset replacement, ensure that the instructions in the appropriate Maintenance Plan for fitting the wheelset lift brackets are strictly adhered to.

3. SCOPE

This instruction applies to all PWRA registered wagons fitted with “cast frame” TF25 bogies fitted with wheelset lift brackets.

4. IMPLEMENTATION

This document shall be implemented immediately.

In the event of any query arising, or clarification required, please contact:

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