

Government of India
Ministry of Railways
Research, Designs & Standards Organisation
Manak Nagar, Lucknow - 226 011

No. EL/3.2.5/J3

Dated 24.1.1992

Modification Sheet No. RDSO/WAM4/164

1. **Title** : Prevention of suspension bearing oil leakage into the stator frame.
2. **Application** : All electric locomotives fitted with traction motors type TAO 659.
3. **Object** : Railways have reported ingress/seepage and or leakage of suspension bearings oil inside the stator frame through taped hole for the fixation of main pole core. In some of the cases it is also observed that oil is seeping through the hole for fixing the clamp of inter connectors, though M-seal is provided on these holes, At present M-Seal is being provided on pole fixing bolt head to avoid loosening as well as to provide sealing. It has been observed that there is no proper bonding of M-seal with the matching surface and thus leading to micro voids. In fact the provisions of M-seal appears to be not serving the purpose of sealing.
4. **Details of Modification**
 - 4.1 : Remove, if necessary by breaking the M-Seal from the main pole core No. fixing bolt head.
 - 4.2 : Remove the dust, grease and oil etc. from the surface of bolt head, bolt threads and dummy hole in stator and threaded portion in the core. The surface may be cleaned with the help of petrol and brush/cotton cloth.
 - 4.3 : Apply the loctite compound on bolt thread as per details given in RDSO's modification sheet No.RDSO/WAM4/165.

- 4.4 : Tighten the main pole fixing bolt with the torque wrench.
- : Apply RTV silicon compound (As per technical details given in 6.0 on the bolt heads and cover/dress up it properly. This RTV compound will set and get cured at room temperature within two hours and get cured fully within 24 hours without baking.
5. **Implementation Schedule** : This should be implemented on all TAO 659 Traction Motor during annual overhaul/repairs etc.
6. **Material Required** : RTV silicon Rubber compound (Single component)
- 6.1 : **Likely suppliers**
- a) RTV type 685 from - M/s Anabond Pvt. Ltd., 3A IIIrd floor, Adyar Bridge Road, Adyar, Madras-600020
- b) RTV type KE-45 : M/s Acra Bond Adhesive Sealants, 17, Raghunath Dadaji Street, Maruti Lane, 4th Floor Fort Bombay-400001. Telex No.267790 or equivalent from M/s Jayanti Lal J. Gandhi Corporation, 404/405 Amit Industrial Estate, 61, Dr. S. S. Rao Road, Bombay-400012
7. **Agency for Implementation** : i) All production units including CLW/CRJ.
ii) All Traction Motors repair workshops.
iii) All electric loco sheds.
iv) All electric loco POH workshops.
8. **Distribution** : as per list enclosed.



DA: NIL

(P. K. Jain)
for Director General/Elect.