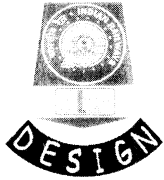


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dated: 11.05.12

DESIGN BULLETIN

- 1. Design bulletin no.** DB/01/2012/16
- 2. Subject-** Provision of Chamfer in Alco M.B. Cap (Inter) to drawing no. 14A72150-4 & PL no. 10142034
- 3. Background-** RDSO has undertaken a consultancy with M/s FEV/Germany for upgradation of 16 cylinder Alco engine.
- 4. Objective-** To reduce compressive mean stress in serration region of Main Bearing Cap.
- 5. Details of study /Investigation:** As per result of FEA analysis done by M/s FEV/Germany, it is expected that if chamfer at serration of main bearing cap in M.B.Stud holes (near Serration region) is introduced it shall reduce the compressive mean stress caused due to pretension of main bearing studs.
- 6. Revision in Drawing** Based on recommendation as suggested by M/s FEV, alteration in drawing no. 14A72150-4 (PL no. 10142034) has been done vide alt'h', dt.05.05.12.
- 7. Modification in QP:** Block shop to modify its WI to include provision of Chamfer in M.B.Stud holes near Serration region.
- 8. Implementation-** This has to be implemented by Block shop(HMS) in main bearing cap (inter) with immediate effect.
- 9. Circulation-** CQAM, CME (P);
 Dy CME/Block, Dy CME Tooling, Dy.CQAM, Dy.CME/Planning
 SSE/HMS, SSE/Insp/E-I, SSE/Design (Engine)

[Signature]
 Dy CDE/Engine

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 15/5/12

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