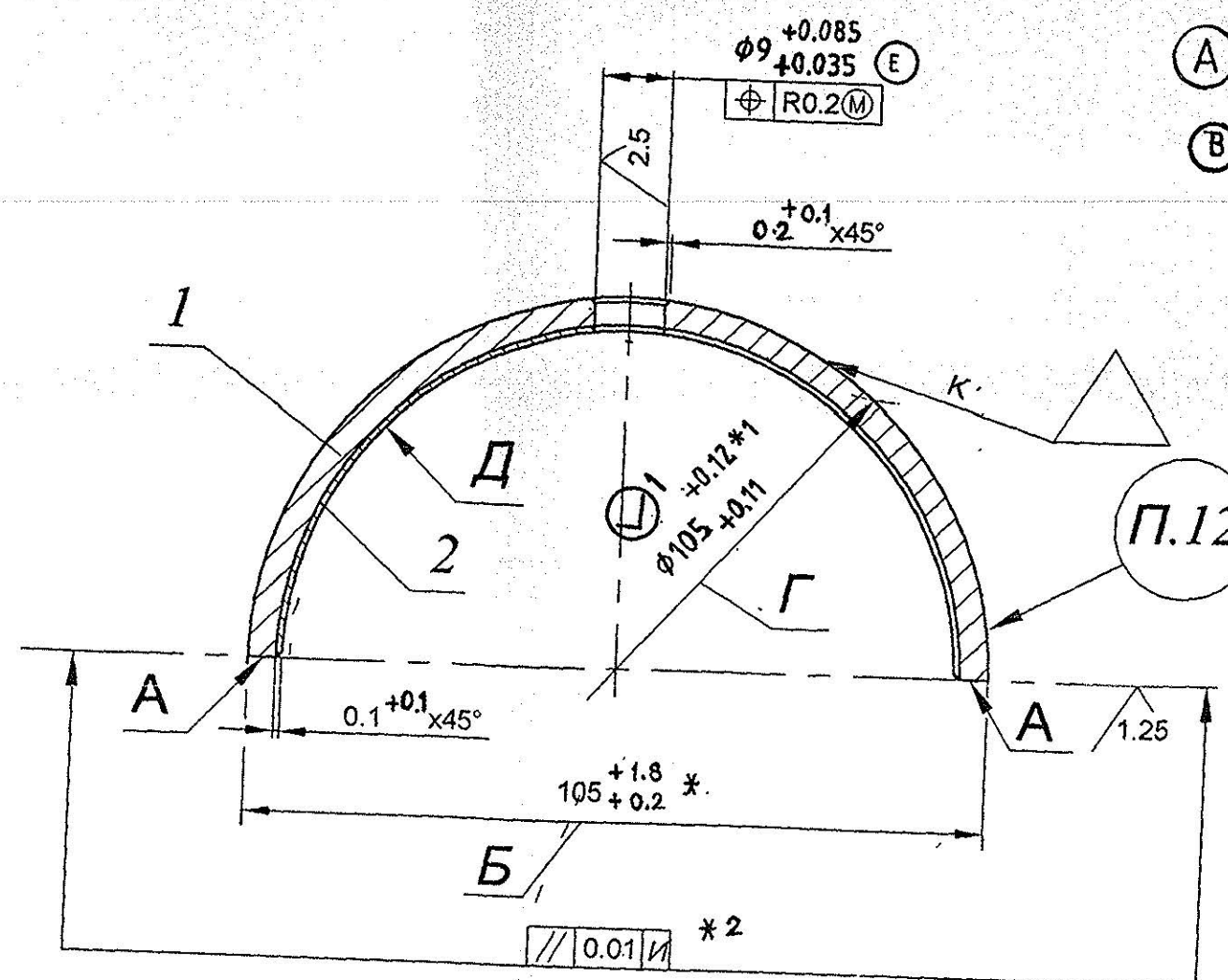
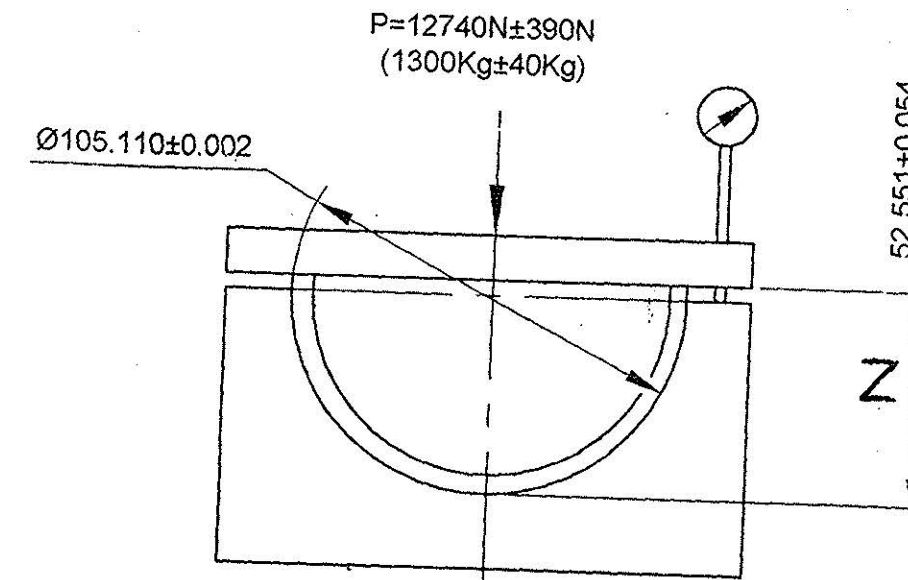
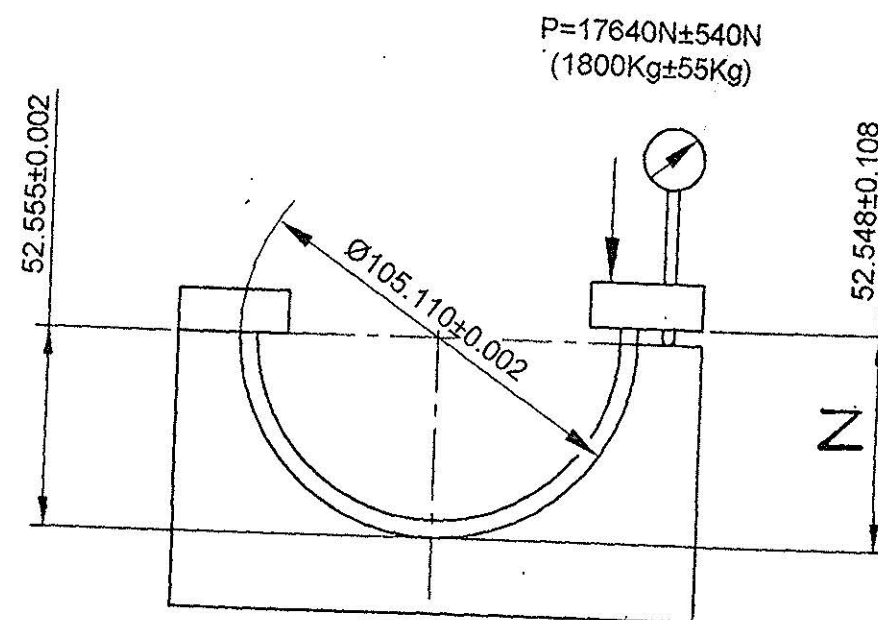


SKETCH 1  
(1:2)



SKETCH 2 (1:2) (ALTERNATIVE)



Slk No.	R1	REMARKS
1		1. FINISH SURFACE K WITH THE CRANKCASE ASSERTED BORE INSERTS Cb.301-82-5 DIMENSIONS OF 94 +0.022 TO 95 +0.022
2	+0.12 105 +0.11	2. FOR OTHER SIZES, ROUGHNESS OF SURFACES TECH. REQUIREMENTS AND MATERIAL REFER TO DRG. No. 301-82-5
3	+0.2 96.5	3. REPAIR SIZE CATEGORY R1 (or) R2 THROUGH R8 TO BE MARKED BY USING AN ELECTROGRAPH
	+0.07 93.5	

- The upper bearing shell is to be paired with the lower bearing shell sb.301-83-5, as per height 'Z'. The total height of the paired halves should be within 105.08...105.112 mm. Parallel drift of joining surface 'A' of paired bearing shells from the axis of surface 'I' should not exceed 0.05 mm.
- Requirement for the Material and the quality of plating should be as per instruction TTM-43-87.
- Coating : O1 or 3microns -zinc, 1micron -Chromium as per instruction ИЛ 749-88, after pairing the shells to be used as spare parts.
- Surface 'D' should be lead plated, with layer thickness of 0.015±0.005 mm as per instructions ИЛ 702-87. Blisters, down flows, stripes, places not coated with lead are not allowed. On all other surfaces except the surface A, I and surface B, at the places of engraving figures, down flows and lead coating are permitted.
- Instead of lead plating of surface 'D' it may be plated with the alloy of 88...96% - of Lead and 12...4% - of Tin.
- The difference in total thickness (steel+ bronze) should be 0.1mm maximum. This is to be checked before final machining.
- It is allowed to have maximum 3 numbers of dents upto Ø1.5 mm, depth upto 0.2 mm on the surface I.
- Check the surface "I" by bluing in the region embracing the shells. The imprint should cover minimum 80 % of the shell surface area.
- Carryout the machining as per the dimension given in the square brackets together with the assembly units Cb.301-83-5.
- Dimension of 'Z' (before coating) to be checked by measuring fixtures as per sketch 1 or 2.

Sl. No.	R1	R2	REMARKS
1	+0.12 105 +0.11	+0.12 107 +0.11	1. FINISH SURFACE K WITH THE CRANKCASE ASSERTED BORE INSERTS Cb.301-82-5 DIMENSIONS OF 94 +0.022 TO 95 +0.022
	+0.2 96.5	+0.2 96.5	2. FOR OTHER SIZES, ROUGHNESS OF SURFACES TECH. REQUIREMENTS AND MATERIAL REFER TO DRG. No. Cb.301-82-5.
	+0.07 93.5	+0.07 93.5	3. REPAIR SIZE CATEGORY R1 (OR) R2 TO BE MARKED BY USING AN ELECTROGRAPH.

NOTE: 'R2' SIZE IS 'APPLICABLE ONLY' FOR V46-6 ENGINE.

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION.

EST. WT. (kg) 0.283 TO BE STAMPED OR MARKED WHERE INDICATED THUS # ( LETTERS)

ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT-SIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.

E	06.02.19	D.O.CORRECTION	DRN	CHD	MATERIAL :-	USED ON :-
D	23.02.16	USED ON NUMBER ADDED.	APPD			Cb 3301-15-30 (D) Cb 3301-15-30-01
C	20.8.10	4 <sup>th</sup> Alt. Comm. Meeting Minutes Point No.20 Dt. 26.10.09	DATE	10.01.08	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI	
B	12-06-09	Authy:- ijEFA Lt.No.EFA/P/RDS/028 Dt: 25-05-09 & (ii) 82847/OH/QAS/ED Dt: 20-03-05.	SCALE:-	1 : 1	TITLE :-	UPPER INSERT
A	10.01.08	Repair size dimensions are added AUTHY:- LIA. MEET. MINUTES POINT NO: 2.5 Dt. 18.12.07	TOLERANCE ON DIMNS UNLESS OTHERWISE STATED IS: 2102-69		D S CAT NUMBER	DRAWING NUMBER Cb 301-82-5
ISSUE	DATE	NATURE OF AMENDMENTS	ALL THREADS TO CONFORM TO			

DRAWING INDIANISED BASED ON RUSSIAN ORIGINAL ISSUE - 19 DRG. REPLACES Cb 301-82-5 ISSUE-8 VIDE NOTN. No.- 2003-283. COMMON TO V-92S2 ENGINE.

F-154  
46  
59  
SIZE A4 x 4



