



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

| | | | | | | |
|-------|---|--|--|--------------------------------|---------------------|-----------|
| 1. | SHELL No. | 4008 | DISPATCH DATE | | | 18.8.2014 |
| 2. | Railway | SW | Type | LWCBAC | Coach No. | 14802 |
| 3. | Booked to | SSE/C&W/SBC | | | | |
| 4. | Tare Weight of Coach | 40.9 T | | | | |
| 5. | Carrying Capacity | Seating | NIL | Sleeping | NIL | Luggage |
| 6. | Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b') | | | | | |
| 6.1 | Leading Dimensions: | | | | | |
| i) | Maximum length over Body | 23700+10/-0 mm | | | | |
| ii) | Maximum width over Body | 3240-8/+0 mm, 3050 mm (LWSCZDAC) | | | | |
| iii) | Max. Height From Rail Level | 4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC) | | | | |
| iv) | Buffer/CBC Height | Specified : 1105 +0 /-15 mm | 1105 | 1105 | | |
| v) | Buffer/CBC (Make) | ESCORTS | Fiba Device | NIL | | |
| 7. | Air Brake Testing: | | Description | Specified | Observed | |
| 7.1 | Full Brake Application | | Reduce pressure of BP from 5.0 to 3.4 kg/cm ² | 6 –10 sec | 6 Sec | |
| | | | Max Pressure in BC | 3.80 ± 0.15 Kg/cm ² | 3.80 | |
| | | | All Brake are applied | OK | OK | |
| 7.2 | Insensitivity | | Exhaust BP @ 0.3 kg/cm ² /min | No brake application | OK | |
| 7.3 | Sensitivity | | Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec. | Brake must apply | OK | |
| 8. | PAINTING DEATAILS: | | TYPE OF PAINT | MAKE | AVERAGE GLOSS VALUE | |
| 8.1 | PAINT | | PU PAINT | NEROLAC | 86/88 | |
| 8.2 | APPLICATION OF PCN-123 | | SATISFACTORY | | | |
| 8.3 | INSUALTION | | SATISFACTORY | | | |
| 9. | Traceability of Furnishing Items: | | Make | | | |
| i. | BRAKE EQUIPMENT | | FAIVELEY | | | |
| ii. | CDTS/ BIO TOILET | | AIKON | | | |
| iii. | SEATS/ BERTHS | | AAR KAY FOAMS | | | |
| iv. | BODY SIDE DOOR | | JBM | | | |
| v. | VESTIBULE SLIDING DOOR | | JBM | | | |
| vi. | SALOON DOOR | | KALSI | | | |
| vii. | WATER TANKS | | AMIT | | | |
| viii. | UIC VESTIBULE | | KRP | | | |
| ix | FLOOR BOARD | | TAYAL | | | |
| x | PVC FLOORING | | RESPONSIVE | | | |
| 10. | | | | | | |
| 10.1 | Modification / Trail (if any): | | | | NIL | |
| 10.2 | Deviations if any: | | | | NIL | |



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|--------------------|---|---------------------------------------|------------------------------------|--------------------|----------------------|--------------------|-----------------------|--------------------|------------------|-----------|----------------------|--|
| 12. | Bogie Details: | | Shell No. | | Railway | | Type | | Coach No. | | Dispatch Date | |
| | | | 4008 | | SWR | | LWCBAC | | 14802 | | 27-05-14 | |
| 12.1 | Wheel & Axle Details: | | PP Side | | | | | NPP Side | | | | |
| | i. | Bogie No. | 146413 | | | | | 146412 | | | | |
| | ii. | Frame No. | FIAT-3121 | | | | | FIAT-3127 | | | | |
| | iii. | Bolster No. | 3820-P | | | | | 3738-P | | | | |
| | iv. | Axle No. | W-4494 | | RWF-110643 | | RWF-109253 | | RWF-110146 | | | |
| | v. | Wheel Dia. | 915.00 | 915.00 | 917.00 | 917.00 | 916.00 | 916.00 | 916.00 | 916.00 | | |
| | vi. | Wheel Disc No. | 089-63305 | 195-63301 | 298-50857 | 282-50857 | 029-51916 | 140-63305 | 371-63309 | 352-63309 | | |
| | vii. | R.B. Nos. | 91982 | 11600 | 11500 | 91701 | 03691 | 92044 | 06905 | 07059 | | |
| | viii. | R.B. Make | SKF | | SKF | | SKF | | SKF | | | |
| | ix. | RB Type | UIC CARTRIDGE TAPER ROLLER BEARING | | | | | | | | | |
| 12.2 | Secondary suspension load deflection Values: | | | | | | | | | | | |
| Description | | Secondary 1 | | Secondary 2 | | Secondary 1 | | Secondary 2 | | | | |
| | | Outer | Inner | Outer | Inner | Outer | Inner | Outer | Inner | | | |
| i. | Make & nos. | DN-12-2602/08/R | G-13-4-5201 | DN-12-2753-8-12 | G-13-4-1178 | DN-12-2/608/8/R | G-13-9-5206 | DN-12-2/92104/R | G-13-4-5026 | | | |
| ii. | Ht. attest load | 508 | 465 | 508 | 466 | 508 | 467 | 510 | 467 | | | |
| iii. | Align .deviation | 22 | 24 | 20 | 20 | 19 | 18 | 16 | 17 | | | |
| 12.3 | Items traceability: | | | | | | | | | | | |
| | S no. | Item | | | PP Side Bogie | | NPP side Bogie | | Make | | | |
| | i. | Primary Outer Spring | | | L&S-02-13 | | L&S-02-13 | | L&S | | | |
| | ii. | Primary inner Spring | | | L&S-05-12 | | L&S-05-12 | | L&S | | | |
| | iii. | Primary Damper | | | | | | | GEREP | | | |
| | iv. | Secondary damper | | | | | | | GEREP | | | |
| | v. | Lateral Damper | | | | | | | GEREP | | | |
| | vi. | Yaw Damper | | | | | | | NIL | | | |
| | vii. | Brake cylinder & Caliper | | | | | | | FTI | | | |
| | viii. | Brake Disc | | | | | | | KBI | | | |
| | ix. | Ball joint Control arm | | | | | | | SGA | | | |
| | x. | Lateral Bump stop | | | | | | | GMT | | | |
| | xi. | Traction center make | | | | | | | SARITA | | | |
| | xii. | Traction lever make | | | | | | | SARITA | | | |
| | xiii. | Ball joint traction lever | | | | | | | GMT | | | |
| | xiv. | Traction centre elastic | | | | | | | SGA | | | |
| | xv. | Secondary rubber pad | | | | | | | TESPAK | | | |
| | xvi. | Rubber spring | | | | | | | GMT | | | |
| | xvii. | Anti roll bar make | | | | | | | SARITA | | | |
| | xviii. | Ball joint roll link | | | | | | | SARITA | | | |
| | xix. | Fork make | | | | | | | EMSON | | | |
| 12.4 | i. | Modification / Trial (if any): | | | | | NIL | | | | | |
| | ii. | Deviations (if any): | | | | | NIL | | | | | |

LWCBAC-4008



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

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|-------|---|--|---------------|--------------------------------|---------------------|----------|-----|
| 1. | SHELL No. | 4007 | DISPATCH DATE | | | 4.8.2014 | |
| 2. | Railway | SW | Type | LWCBAC | Coach No. | 14801 | |
| 3. | Booked to | SSE/C&W/SBC | | | | | |
| 4. | Tare Weight of Coach | 40.9 T | | | | | |
| 5. | Carrying Capacity | Seating | NIL | Sleeping | NIL | Luggage | NIL |
| 6. | Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b') | | | | | | |
| 6.1 | Leading Dimensions: | | | | | | |
| i) | Maximum length over Body | 23700+10/-0 mm | | | | | |
| ii) | Maximum width over Body | 3240-8/+0 mm, 3050 mm (LWSCZDAC) | | | | | |
| iii) | Max. Height From Rail Level | 4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC) | | | | | |
| iv) | Buffer/CBC Height | Specified : 1105 +0 /-15 mm | 1105 | 1105 | | | |
| v) | Buffer/CBC (Make) | ESCORTS | Fiba Device | NIL | | | |
| 7. | Air Brake Testing: | Description | | Specified | Observed | | |
| 7.1 | Full Brake Application | Reduce pressure of BP from 5.0 to 3.4 kg/cm ² | | 6 -10 sec | 6 Sec | | |
| | | Max Pressure in BC | | 3.80 ± 0.15 Kg/cm ² | 3.80 | | |
| | | All Brake are applied | | OK | OK | | |
| 7.2 | Insensitivity | Exhaust BP @ 0.3 kg/cm ² /min | | No brake application | OK | | |
| 7.3 | Sensitivity | Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec. | | Brake must apply | OK | | |
| 8. | PAINTING DEATAILS: | | TYPE OF PAINT | MAKE | AVERAGE GLOSS VALUE | | |
| 8.1 | PAINT | PU PAINT | | VIBGYOR | 86.5/88.6 | | |
| 8.2 | APPLICATION OF PCN-123 | SATISFACTORY | | | | | |
| 8.3 | INSUALTION | SATISFACTORY | | | | | |
| 9. | Traceability of Furnishing Items: | | | Make | | | |
| i. | BRAKE EQUIPMENT | | | FAIVELEY | | | |
| ii. | CDTS/ BIO TOILET | | | AIKON | | | |
| iii. | SEATS/ BERTHS | | | AAR KAY FOAMS | | | |
| iv. | BODY SIDE DOOR | | | JBM | | | |
| v. | VESTIBULE SLIDING DOOR | | | JBM | | | |
| vi. | SALOON DOOR | | | KALSI | | | |
| vii. | WATER TANKS | | | AMIT & E C BLADE | | | |
| viii. | UIC VESTIBULE | | | KRP | | | |
| ix | FLOOR BOARD | | | TAYAL | | | |
| x | PVC FLOORING | | | RESPONSIVE | | | |
| 10. | | | | | | | |
| i | Modification / Trail (if any): | | | | NIL | | |
| ii | Deviations if any: | | | | NIL | | |



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|--------------------|---|---------------------------------------|------------------------------------|-------------|----------------------|--------------|-----------------------|-----------------|------------------|-------------|----------------------|--|
| 12. | Bogie Details: | | Shell No. | | Railway | | Type | | Coach No. | | Dispatch Date | |
| | | | 4007 | | SW | | LWCBAC | | 14801 | | 22-05-14 | |
| 12.1 | Wheel & Axle Details: | | PP Side | | | | | NPP Side | | | | |
| | i. | Bogie No. | 146438 | | | | | 146444 | | | | |
| | ii. | Frame No. | FIAT-2870 | | | | | FIAT-2750 | | | | |
| | iii. | Bolster No. | 151-HEI | | | | | 133-HEI | | | | |
| | iv. | Axle No. | W-4540 | | RWF-110528 | | RWF-110545 | | W-4561 | | | |
| | v. | Wheel Dia. | 916.00 | 916.00 | 916.00 | 916.00 | 916.00 | 916.00 | 916.00 | 916.00 | 916.00 | |
| | vi. | Wheel Disc No. | 214-63302 | 104-63307 | 304-63302 | 208-63302 | 172-63305 | 182-63302 | 00135-07756 | 00210-07756 | | |
| | vii. | R.B. Nos. | 91623 | 12003 | 92190 | 92243 | 06914 | 77343 | 06899 | 77365 | | |
| | viii. | R.B. Make | SKF | | SKF | | SKF | | SKF | | | |
| | ix. | RB Type | UIC CARTRIDGE TAPER ROLLER BEARING | | | | | | | | | |
| 12.2 | Secondary suspension load deflection Values: | | | | | | | | | | | |
| Description | | Secondary 1 | | Secondary 2 | | Secondary 1 | | Secondary 2 | | | | |
| | | Outer | Inner | Outer | Inner | Outer | Inner | Outer | Inner | | | |
| i. | Make & nos. | BPS-2013-58 | BPS-2013-03 | BPS-2013-68 | BPS-2013-114 | BPS-2013-116 | 2013-229 | BPS-2013-101 | BPS-2013-239 | | | |
| ii. | Ht. attest load | 507 | 471 | 507 | 468 | 509 | 463 | 507 | 464 | | | |
| iii. | Align .deviation | 8 | 26 | 9 | 24 | 4 | 34 | 5 | 36 | | | |
| 12.3 | Items traceability: | | | | | | | | | | | |
| S no. | | Item | | | PP Side Bogie | | NPP side Bogie | | Make | | | |
| i. | Primary Outer Spring | | | BPS-2013 | | BPS-2013 | | BPS | | | | |
| ii. | Primary inner Spring | | | BPS-2013 | | BPS-2013 | | BPS | | | | |
| iii. | Primary Damper | | | | | | | GEREP | | | | |
| iv. | Secondary damper | | | | | | | GEREP | | | | |
| v. | Lateral Damper | | | | | | | SACHS | | | | |
| vi. | Yaw Damper | | | | | | | NIL | | | | |
| vii. | Brake cylinder & Caliper | | | | | | | FTI | | | | |
| viii. | Brake Disc | | | | | | | KBI | | | | |
| ix. | Ball joint Control arm | | | | | | | SGA | | | | |
| x. | Lateral Bump stop | | | | | | | GMT | | | | |
| xi. | Traction center make | | | | | | | SARITA | | | | |
| xii. | Traction lever make | | | | | | | SARITA | | | | |
| xiii. | Ball joint traction lever | | | | | | | GMT | | | | |
| xiv. | Traction centre elastic | | | | | | | SGA | | | | |
| xv. | Secondary rubber pad | | | | | | | TESPAK | | | | |
| xvi. | Rubber spring | | | | | | | GMT | | | | |
| xvii. | Anti roll bar make | | | | | | | EMSON | | | | |
| xviii. | Ball joint roll link | | | | | | | SARITA | | | | |
| xix. | Fork make | | | | | | | EMSON | | | | |
| 12.4 | i. | Modification / Trial (if any): | | | | | NIL | | | | | |
| | ii. | Deviations (if any): | | | | | NIL | | | | | |