



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

| | | | | | | | |
|-----|---|--------------------------------|--|--------------------------------|---------------------|---------|------------|
| 1. | SHELL No. | 5033 | DISPATCH DATE | | | | 05.09.2015 |
| 2. | Railway | EC | Type | LWACCN | Coach No. | 15114 | |
| 3. | Booked to | SSE/C&W/BZA | | | | | |
| 4. | Tare Weight of Coach | 45.6 T | | | | | |
| 5. | Carrying Capacity | Seating | 72 | Sleeping | 72 | 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 | APC | 86/86 | | |
| | 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 | RAIL TECH | | | | |
| | iii. | SEATS/ BERTHS | ADVANCE | | | | |
| | iv. | BODY SIDE DOOR | JBM | | | | |
| | v. | VESTIBULE SLIDING DOOR | KALSI | | | | |
| | vi. | SALOON DOOR/comptt. | KALSI | | | | |
| | vii. | WATER TANKS | KUTEER, SHIVALIK, E C BLADES | | | | |
| | viii. | UIC VESTIBULE | FRIKMART | | | | |
| | ix | FLOOR BOARD | NARBADA | | | | |
| | X | PVC | RESPONSIVE | | | | |
| 10. | | | | | | | |
| | 10.1 | Modification / Trail (if any): | FITTED WITH BIO DIGESTER OF M/s RAIL FAB | | | | |
| | 10.2 | Deviations if any: | NIL | | | | |



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Rail Coach Factory , Kapurthala

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|--------------------|---|---------------------------------------|------------------------------------|--------------------|---|--------------------|--------------|--|------------------|--------------|----------------------|------------|
| 11. | Bogie Details: | | Shell No. | | Railway | | Type | | Coach No. | | Dispatch Date | |
| | | | 5033 | | EC | | LACCN | | 15114 | | 27-08-2015 | |
| 11.1 | Wheel & Axle Details: | | PP Side | | | | | | NPP Side | | | |
| | i. | Bogie No. | 156619 | | | | | | 156620 | | | |
| | ii. | Frame No. | FIAT-4244 | | | | | | FIAT-4221 | | | |
| | iii. | Bolster No. | 4723-VT | | | | | | 5012-VT | | | |
| | iv. | Axle No. | 128520/983 | | 127804/987 | | 127878/987 | | 114104/374 | | | |
| | v. | Wheel Dia. | 916.00 | 916.50 | 916.00 | 916.00 | 917.00 | 917.00 | 916.00 | 916.00 | 916.00 | 916.00 |
| | vi. | Wheel Disc No. | 6197-00148 | 6149-00192 | 6232-00025 | 6148-00004 | 06149-00218 | 6232-00068 | 6197-00189 | 6149-00273 | 6197-00189 | 6149-00273 |
| | vii. | R.B. Nos. | 03652 | 03946 | 03817 | 03889 | 03872 | 03854 | 03846 | 03643 | 03846 | 03643 |
| | viii. | R.B. Make | TIMKEN | | TIMKEN | | TIMKEN | | TIMKEN | | | |
| | ix. | RB Type | UIC CARTRIDGE TAPER ROLLER BEARING | | | | | | | | | |
| 11.2 | Secondary suspension load deflection Values: | | | | | | | | | | | |
| Description | | Secondary 1 | | Secondary 2 | | Secondary 1 | | Secondary 2 | | | | |
| | | Outer | Inner | Outer | Inner | Outer | Inner | Outer | Inner | Outer | Inner | |
| i. | Make & nos. | G-15-4-094 | G-12-11-3767 | G-15-4-030 | G-12-11-4032 | G-15-4-090 | G-12-11-4025 | G-15-4-091 | G-12-08-2743 | G-15-4-091 | G-12-08-2743 | |
| ii. | Ht. at test load | 511 | 465 | 513 | 464 | 514 | 466 | 512 | 468 | 512 | 468 | |
| iii. | Align .deviation | 15 | 17 | 17 | 18 | 14 | 32 | 18 | 36 | 18 | 36 | |
| 11.3 | Items traceability: | | | | | | | | | | | |
| | Sno. | Item | | | PP Side Bogie | | | NPP side Bogie | | | Make | |
| | i. | Primary Outer Spring | | | G-12-10 | | | G-12-10 | | | GF | |
| | ii. | Primary inner Spring | | | GBD-12-9 | | | GBD-12-9 | | | GBD | |
| | iii. | Primary Damper | | | 1649,1505,449,1689 | | | 1692,561,1667,1409 | | | GEREP | |
| | iv. | Secondary damper | | | 4238,4281 | | | 5116,5043 | | | KONI | |
| | v. | Lateral Damper | | | 267 | | | 539 | | | GEREP | |
| | vi. | Yaw Damper | | | | | | | | | NIL | |
| | vii. | Brake cylinder & Caliper | | | 15081/600,15100/600, F15030/600,15108/600 | | | 15118/600,15104/600, 15107/600,15091/600 | | | FTI | |
| | viii. | Brake Disc | | | | | | | | | KBI | |
| | ix. | Ball joint Control arm | | | | | | | | | MGN | |
| | x. | Lateral Bump stop | | | | | | | | | MGN | |
| | xi. | Traction center make | | | | | | | | | SARITA | |
| | xii. | Traction lever make | | | | | | | | | SARITA | |
| | xiii. | Ball joint traction lever | | | | | | | | | GMT | |
| | xiv. | Traction centre elastic | | | | | | | | | GMT | |
| | xv. | Secondary rubber pad | | | | | | | | | TESPAK | |
| | xvi. | Rubber spring | | | | | | | | | BATEGU | |
| | xvii. | Anti roll bar make | | | | | | | | | EMSON | |
| | xviii. | Ball joint roll link | | | | | | | | | SARITA | |
| | xix. | Fork make | | | | | | | | | EMSON | |
| 11.4 | i. | Modification / Trial (if any): | | | NIL | | | | | | | |
| | ii. | Deviations (if any): | | | NIL | | | | | | | |

LWACCN-5033



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

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|-----|---|--------------------------------|--|--------------------------------|---------------------------------|------------|-----|
| 1. | SHELL No. | 5024 | DISPATCH DATE | | | 14.09.2015 | |
| 2. | Railway | ECR | Type | LWACCN | Coach No. | 15113 | |
| 3. | Booked to | SSE/C&W/SPJ | | | | | |
| 4. | Tare Weight of Coach | 45.6 T | | | | | |
| 5. | Carrying Capacity | Seating | 72 | Sleeping | 72 | 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) | FAIVELEY | 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 | APEX | 88/91 | | |
| | 8.2 | APPLICATION OF PCN-123 | SATISFACTORY | | | | |
| | 8.3 | INSUALTION | SATISFACTORY | | | | |
| 9. | Traceability of Furnishing Items: | | | | Make | | |
| | i. | BRAKE EQUIPMENT | | | KBI | | |
| | ii. | CDTS/ BIO TOILET | | | RAIL TECH | | |
| | iii. | SEATS/ BERTHS | | | ADVANCE | | |
| | iv. | BODY SIDE DOOR | | | JBM | | |
| | v. | VESTIBULE SLIDING DOOR | | | RAIL TECH | | |
| | vi. | SALOON DOOR | | | KALSI | | |
| | vii. | WATER TANKS | | | KUTEER, SHIVALIK, E C BLADES | | |
| | viii. | UIC VESTIBULE | | | ELASTOMER | | |
| | ix | FLOOR BOARD | | | TAYAL | | |
| | X | PVC | | | RESPONSIVE | | |
| 10. | | | | | | | |
| | 10.1 | Modification / Trail (if any): | FITTED WITH BIO DIGESTER OF M/s RAIL FAB | | | | |
| | 10.2 | Deviations if any: | NIL | | | | |



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| 11. | Bogie Details: | | Shell No. | | Railway | | Type | | Coach No. | | Dispatch Date | |
| | | | 5024 | | ECR | | LACCN | | 15131 | | 26-08-2015 | |
| 11.1 | Wheel & Axle Details: | | PP Side | | | | | | NPP Side | | | |
| | i. | Bogie No. | 156568 | | | | | | 156531 | | | |
| | ii. | Frame No. | FIAT-4167 | | | | | | FIAT-4171 | | | |
| | iii. | Bolster No. | 4918-VT | | | | | | 4906-VT | | | |
| | iv. | Axle No. | 113834/375 | | 126367/474 | | 128873/990 | | 126050/475 | | | |
| | v. | Wheel Dia. | 917.00 | 917.00 | 918.00 | 918.00 | 917.00 | 917.00 | 916.00 | 916.00 | | |
| | vi. | Wheel Disc No. | 6197-00142 | 6232-00102 | 6194-00176 | 06232-00143 | 06232-00061 | 06232-00182 | 06232-00195 | 6194-00034 | | |
| | vii. | R.B. Nos. | 23333 | 21686 | 01437 | 22031 | 21692 | 16859 | 23232 | 22024 | | |
| | viii. | R.B. Make | SKF | | SKF | | SKF | | SKF | | | |
| | ix. | RB Type | UIC CARTRIDGE TAPER ROLLER BEARING | | | | | | | | | |
| 11.2 | 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. | G-15-4-019 | G-13-4-4515 | G-15-4-048 | G-13-4-4368 | G-15-4-106 | G-13-4-4578 | G-15-4-136 | G-13-4-4540 | | | |
| ii. | Ht. at test load | 513 | 467 | 514 | 468 | 514 | 467 | 513 | 467 | | | |
| iii. | Align .deviation | 15 | 11 | 15 | 11 | 19 | 23 | 17 | 20 | | | |
| 11.3 | Items traceability: | | | | | | | | | | | |
| | Sno. | Item | | | PP Side Bogie | | NPP side Bogie | | Make | | | |
| | i. | Primary Outer Spring | | | G-12-10 | | G-12-10 | | GF | | | |
| | ii. | Primary inner Spring | | | G-12-5 | | G-12-5 | | GF | | | |
| | iii. | Primary Damper | | | 1106,1115,369,352 | | 372,328,1124,368 | | GEREP | | | |
| | iv. | Secondary damper | | | 1294,1252 | | 1283,1257 | | GEREP | | | |
| | v. | Lateral Damper | | | 511 | | 547 | | GEREP | | | |
| | vi. | Yaw Damper | | | | | | | NIL | | | |
| | vii. | Brake cylinder & Caliper | | | 1294/691,1309/691,1389/691,1365/691 | | 1124/691,1202/691,1140/691,1207/691 | | KBI | | | |
| | viii. | Brake Disc | | | | | | | KBI | | | |
| | ix. | Ball joint Control arm | | | | | | | MGN | | | |
| | 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 | | | | | | | GMT | | | |
| | xv. | Secondary rubber pad | | | | | | | TESPAK | | | |
| | xvi. | Rubber spring | | | | | | | GMT | | | |
| | xvii. | Anti roll bar make | | | | | | | EMSON | | | |
| | xviii. | Ball joint roll link | | | | | | | SARITA | | | |
| | xix. | Fork make | | | | | | | SARITA | | | |
| 11.4 | i. | Modification / Trial (if any): | | | | | NIL | | | | | |
| | ii. | Deviations (if any): | | | | | NIL | | | | | |

LWACCN-5024