



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

| | | | | | | | |
|-----|---|--------------------------------|--|--------------------------------|---------------------|---------|------------|
| 1. | SHELL No. | 5015 | DISPATCH DATE | | | | 05.08.2015 |
| 2. | Railway | NR | Type | LWACCW | Coach No. | 153076 | |
| 3. | Booked to | SSE/C&W/NDLS | | | | | |
| 4. | Tare Weight of Coach | 52 | | | | | |
| 5. | Carrying Capacity | Seating | 52 | Sleeping | 52 | 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 | 1102 | 1100 | | |
| | 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 | 3.00 ± 0.15 Kg/cm ² | 3.00 | | |
| | | | 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 | ADVANCE | 88/90 | | |
| | 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 | | ORIENTAL | | | |
| | iii. | SEATS/ BERTHS | | AMIR CHAND | | | |
| | iv. | BODY SIDE DOOR | | JBM | | | |
| | v. | VESTIBULE SLIDING DOOR | | KALSI | | | |
| | vi. | COMPTT.DOOR | | KALSI | | | |
| | vii. | WATER TANKS | | E C BLADES,MANOJ, SHIVALIK | | | |
| | viii. | UIC VESTIBULE | | ELASTOMER | | | |
| | ix | FLOOR BOARD | | TAYAL | | | |
| | X | PVC | | RESPONSIVE | | | |
| 10. | | | | | | | |
| | 10.1 | Modification / Trail (if any): | | | NIL | | |
| | 10.2 | Deviations if any: | | | NIL | | |



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|------|--|--------------------------------|---|----------------|----------------|----------------|--|----------------|----------------|----------------|---------------|--|
| 11. | Bogie Details: | | Shell No. | | Railway | | Type | | Coach No. | | Dispatch Date | |
| | | | 5015 | | NR | | LACCW | | 153076/C | | 06-06-2015 | |
| 11.1 | Wheel & Axle Details: | | PP Side | | | | | | NPP Side | | | |
| | i. | Bogie No. | 156411 | | | | | | 156413 | | | |
| | ii. | Frame No. | FIAT-3925 | | | | | | FIAT-3972 | | | |
| | iii. | Bolster No. | 4748-P | | | | | | 4787-P | | | |
| | iv. | Axle No. | B-9916 | | | 128914/990 | | | C-0026 | | 129163/993 | |
| | v. | Wheel Dia. | 915.00 | 915.00 | 915.00 | 915.00 | 915.00 | 915.00 | 915.00 | 915.00 | 915.00 | |
| | vi. | Wheel Disc No. | 283-63309 | 033-63307 | 151-63307 | 336-63305 | 002-63305 | 100-63307 | 334-63302 | 015-63307 | | |
| | vii. | R.B. Nos. | 04152 | 04465 | 03702 | 03955 | 04452 | 03655 | 04165 | 04653 | | |
| | 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 | | |
| i. | Make & nos. | | CIAFJ-14-03-60 | CIAFJ-14-03-90 | CIAFJ-14-03-01 | CIAFJ-14-03-14 | CIAFJ-14-09-6 | CIAFJ-14-05-31 | CIAFJ-14-09-18 | CIAFJ-14-05-36 | | |
| ii. | Ht. at test load | | 511 | 468 | 510 | 468 | 510 | 468 | 512 | 468 | | |
| iii. | Align .deviation | | 19 | 14 | 20 | 15 | 13 | 9 | 15 | 10 | | |
| 11.3 | Items traceability: | | | | | | | | | | | |
| | Sno. | Item | PP Side Bogie | | | | NPP side Bogie | | | | Make | |
| | i. | Primary Outer Spring | YR-10-10 | | | | YR-10-10 | | | | YR | |
| | ii. | Primary inner Spring | YR-10-11 | | | | YR-10-11 | | | | YR | |
| | iii. | Primary Damper | 1647,2225,2222,1565 | | | | 2509,1624,1673,2418 | | | | GEREP | |
| | iv. | Secondary damper | 4144,4354 | | | | 4344,4411 | | | | KONI | |
| | v. | Lateral Damper | 2858 | | | | 2833 | | | | KONI | |
| | vi. | Yaw Damper | | | | | | | | | NIL | |
| | vii. | Brake cylinder & Caliper | D15037/600,E15035/600, E15005/600,E15034/600 | | | | E15014/600,D15020/600 E15007/600,D15019/600 | | | | FTI | |
| | 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 | | | | | | | | | MGN | |
| | xiv. | Traction centre elastic | | | | | | | | | SGA | |
| | xv. | Secondary rubber pad | | | | | | | | | TESPAK | |
| | xvi. | Rubber spring | | | | | | | | | BATEGO | |
| | 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 | | | | | | |

LWACCW-5015



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

| | | | | | | | |
|-----|---|--------------------------------|--|--------------------------------|---------------------|----------|------------|
| 1. | SHELL No. | 5017 | DISPATCH DATE | | | | 05.08.2015 |
| 2. | Railway | NR | Type | LWACCW | Coach No. | 153079 | |
| 3. | Booked to | | SSE/C&W/NDLS | | | | |
| 4. | Tare Weight of Coach | | 52 | | | | |
| 5. | Carrying Capacity | Seating | 52 | Sleeping | 52 | 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 | 1100 | 1101 | | |
| | 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 | 3.00 ± 0.15 Kg/cm ² | 3.00 | | |
| | | | 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 | 87/88 | | |
| | 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 | ORIENTAL | | | | |
| | iii. | SEATS/ BERTHS | AMIR CHAND | | | | |
| | iv. | BODY SIDE DOOR | JBM | | | | |
| | v. | VESTIBULE SLIDING DOOR | KALSI | | | | |
| | vi. | COMPTT.DOOR | KALSI | | | | |
| | vii. | WATER TANKS | E C BLADES,KUTEER, SHIVALIK | | | | |
| | viii. | UIC VESTIBULE | KRP | | | | |
| | ix | FLOOR BOARD | TAYAL | | | | |
| | X | PVC | RESPONSIVE | | | | |
| 10. | | | | | | | |
| | 10.1 | Modification / Trail (if any): | | | NIL | | |
| | 10.2 | Deviations if any: | | | NIL | | |



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|--------------------|---|---------------------------------------|------------------------------------|--------------------|---|--------------------|--------------|---|------------------|-----------|----------------------|--------|
| 11. | Bogie Details: | | Shell No. | | Railway | | Type | | Coach No. | | Dispatch Date | |
| | | | 5017 | | NR | | LWACCW | | 153079/C | | 25-06-2015 | |
| 11.1 | Wheel & Axle Details: | | PP Side | | | | | | NPP Side | | | |
| | i. | Bogie No. | 156419 | | | | | | 156420 | | | |
| | ii. | Frame No. | FIAT-4070 | | | | | | FIAT-4048 | | | |
| | iii. | Bolster No. | 4772-P | | | | | | 4758-ECBT | | | |
| | iv. | Axle No. | B-9833 | | | C-4589 | | | C-4204 | | 128182/984 | |
| | v. | Wheel Dia. | 915.00 | 915.00 | 915.00 | 915.00 | 915.00 | 915.00 | 915.00 | 915.00 | 915.00 | 915.00 |
| | vi. | Wheel Disc No. | 004-63305 | 170-63305 | 111-63309 | 186-63307 | 015-10579 | 007-63305 | 196-63302 | 168-10568 | | |
| | vii. | R.B. Nos. | 04853 | 04656 | 04769 | 04628 | 04782 | 04777 | 04761 | 04770 | | |
| | 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 | | | |
| i. | Make & nos. | DN-11-12-T-2001 | G-13-05-5293 | DN-11-12-T-2024 | G-13-05-4955 | DN-11-12-T-2161 | G-13-05-5257 | DN-11-12-T-2056 | G-13-05-5098 | | | |
| ii. | Ht. at test load | 508 | 466 | 508 | 466 | 507 | 466 | 508 | 467 | | | |
| iii. | Align .deviation | 14 | 13 | 12 | 9 | 19 | 16 | 20 | 20 | | | |
| 11.3 | Items traceability: | | | | | | | | | | | |
| | Sno. | Item | | | PP Side Bogie | | | NPP side Bogie | | | Make | |
| | i. | Primary Outer Spring | | | YR-10-10 | | | YR-10-10 | | | YR | |
| | ii. | Primary inner Spring | | | YR-10-11 | | | YR-10-11 | | | YR | |
| | iii. | Primary Damper | | | 1596,1659,2454,2533 | | | 1642,1626,1805,1650 | | | GEREP | |
| | iv. | Secondary damper | | | 121,136 | | | 386,126 | | | GEREP | |
| | v. | Lateral Damper | | | 2827 | | | 2771 | | | KONI | |
| | vi. | Yaw Damper | | | | | | | | | NIL | |
| | vii. | Brake cylinder & Caliper | | | E15082/600,E15081/600, E15088/600,E15097/600 | | | E15068/600,E15052/600, E15071/600,E15068/600 | | | FTI | |
| | 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 | | | | | | | | | SGA,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 | | | | | | | | | EMSON | |
| 11.4 | i. | Modification / Trial (if any): | | | | | | NIL | | | | |
| | ii. | Deviations (if any): | | | | | | NIL | | | | |

LWACCW-5017