



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7009	DISPATCH DATE				19.08.17
2.	Railway	CR	Type	LWFAC	Coach No.	17007	
3.	Booked to	SSE/C&W/CSTM					
4.	Tare Weight of Coach	43.6 T					
5.	Carrying Capacity	Seating	24	Sleeping	24	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)	CBC Height		Specified : 1105 +0 /-15 mm		1105	1104	
v)	CBC (Make)		SANROK		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		VIBGYOR	87/89	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
i.	BRAKE EQUIPMENT				FAIVELEY		
ii.	BIO TOILET				RAIL FAB		
iii.	SEATS/ BERTHS				AAR KAY FOAMS		
iv.	BODY SIDE DOOR				JBM		
v.	VESTIBULE SLIDING DOOR				KALSI		
vi.	SALOON DOOR				KALSI		
vii.	WATER TANKS				RAIL TECH(AUX) & SHIVALIK(US)		
viii.	UIC VESTIBULE				SSIPL		
ix	FLOOR BOARD				NARBADA		
x	PVC FLOORING				RESPONSIVE		
10.							
i	Modification / Trail (if any):				NIL		
ii	Deviations if any:				NIL		



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RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 176451457

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			7009	CR	LWFAC	17007/C	19-AUG-17			
11.1	Wheel & Axle Details:									
i.	Bogie No.	176451			176457					
ii.	Frame No.	FIAT-5679			SIMPLEX-05					
iii.	Bolster No.	GT-6977			GT-6972					
iv.	Axle No.	T-0041		W-3133	N-6269		W-2904			
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	
vi.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
vii.	Wheel Disc No.	00086-6178	00013-6109	00104-6070	00089-6105	00103-6188	00099-6188	00046-7248	00142-6225	
viii.	RB Nos.	01811	02211	01961	08996	03220	02209	02231	03295	
ix.	RB Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN		
x.	RB Type	JIC CARTRIDGE TAPER ROLLER BEARING								
11.2	Secondary suspension load deflection Values:									
Description		Lateral Damper Side		Non-Lat. Damper Side		Lateral Damper Side		Non-Lat. Damper Side		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & Nos.	FSK-17-2-46	GBD-16-12-105	FSK-17-2-110	GBD-16-12-166	FSK-17-2-107	GBD-16-12-130	FSK-17-2-33	GBD-16-12-131	
ii.	Ht. at rest load	511.50	467.00	512.00	466.00	509.00	468.00	507.00	468.00	
iii.	Align. deviation	11.00	10.00	8.00	10.00	9.00	6.00	11.00	10.00	
Items traceability:										
11.3	Sno.	Item					Make			
	i.	Primary Outer Spring		FSK-17-3		FSK-17-03		FSK		
	ii.	Primary inner Spring		L4S-13-02		GF-16-12		L4S GF		
	iii.	Primary Damper		37319, 37194, 36982, 37302		36961, 37383, 36977, 36781		KONI		
	iv.	Secondary Damper		0833, 0851		0032, 0856		SV KNORR		
	v.	Lateral Damper		0269		0048		SV		
	vi.	Break cylinder & Caliper		16245, 16265, 16241, 16304		16032, 16430, 16033, 16131		FTI		
	vii.	Break Disc						KBI FTI		
	viii.	Control arm top						KUMAR		
	ix.	Control arm bottom						KUMAR		
	x.	Top rubber Pad						SCA		
	xi.	Vertical Bump Stop						GMT		
	xii.	Ball Joint Control arm						MGN		
	xiii.	Lateral Bump stop						MGN		
	xiv.	Traction center make						EMSON		
	xv.	Traction lever make						APW		
	xvi.	Ball joint traction lever						MGN		
	xvii.	Traction center elastic						GMT		
	xviii.	Secondary rubber pad						TECSPAK		
	xix.	Rubber spring						FRAG		
	xx.	Anti roll bar make						SARITA		
	xxi.	Ball joint roll link						SARITA		
	xxii.	Fork make						SARITA		
11.4	i.	Modification/Trail (if any):		NIL						
	ii.	Deviations (if any):		NIL						



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7011	DISPATCH DATE				19.08.17
2.	Railway	CR	Type	LWFAC	Coach No.	17006	
3.	Booked to		SSE/C&W/CSTM				
4.	Tare Weight of Coach		43.6 T				
5.	Carrying Capacity	Seating	24	Sleeping	24	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)	CBC Height		Specified : 1105 +0 /-15 mm		1105	1105	
v)	CBC (Make)		SANROK		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		VIBGYOR	88/88	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
i.	BRAKE EQUIPMENT				FAIVELEY		
ii.	BIO TOILET				RAIL FAB		
iii.	SEATS/ BERTHS				AAR KAY FOAMS		
iv.	BODY SIDE DOOR				JBM		
v.	VESTIBULE SLIDING DOOR				KALSI		
vi.	SALOON DOOR				KALSI		
vii.	WATER TANKS				RAIL TECH & SHIVALIK(US)		
viii.	UIC VESTIBULE				ESCORT		
ix	FLOOR BOARD				NARBADA		
x	PVC FLOORING				RESPONSIVE		
10.							
i	Modification / Trail (if any):		NIL				
ii	Deviations if any:		NIL				



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RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 176594596

11.	Bogie Details:	Shell No.	Railway		Type	Coach No.	Dispatch Date		
		7011	CR		LWFAC	17006/C	18-AUG-17		
11.1	Wheel & Axle Details:								
i.	Bogie No.	176594				176596			
ii.	Frame No.	ECBT-96				FIAT-5687			
iii.	Bolster No.	P-7114				GT-7090			
iv.	Axle No.	R-2584		R-3669		C-4037		S-9299	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
vi.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
vii.	Wheel Disc No.	00045-6203	00169-7250	00114-6220	00061-7251	00098-6185	00134-6204	00050-6220	00159-7251
viii.	RB Nos.	08365	09302	08517	09164	09211	09350	09196	08766
ix.	RB Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
x.	RB Type	JIC CARTRIDGE TAPER ROLLER BEARING							
11.2	Secondary suspension load deflection Values:								
Description	Lateral Damper Side		Non-Lat. Damper Side		Lateral Damper Side		Non-Lat. Damper Side		
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & Nos.	RSK-16-09-381	GBD-17-04-90	RSK-16-09-207	GBD-17-04-126	RSK-16-09-952	GBD-17-04-094	RSK-16-09-385	GBD-17-04-086
ii.	Ht. at rest load	511.00	466.00	509.00	468.00	512.00	468.00	512.00	466.00
iii.	Align. deviation	17.00	11.00	17.00	12.00	8.00	11.00	11.00	12.00
11.3	Items traceability:								
Sno.	Item					Make			
i.	Primary Outer Spring	FSK-17-03				FSK			
ii.	Primary inner Spring	FSK-17-03				FSK			
iii.	Primary Damper	35508, 35663, 35629, 35557		35518, 35507, 35673, 35875		KONI			
iv.	Secondary Damper	277, 244		199, 248		GABRIEL			
v.	Lateral Damper	133		138		GABRIEL			
vi.	Break cylinder & Caliper	B17118, B17037, B17117, B17040		B17207, B17121, B17208, B17118		FTI			
vii.	Break Disc					KBI			
viii.	Control arm top					KUMAR			
ix.	Control arm bottom					KUMAR			
x.	Top rubber Pad					GMT			
xi.	Vertical Bump Stop					GMT			
xii.	Ball Joint Control arm					GMT			
xiii.	Lateral Bump stop					GMT			
xiv.	Traction center make					EMSON			
xv.	Traction lever make					SARITA			
xvi.	Ball joint traction lever					MCN			
xvii.	Traction center elastic					SGA		GMT	
xviii.	Secondary rubber pad					DUREL			
xix.	Rubber spring					GMT			
xx.	Anti roll bar make					EMSON			
xxi.	Ball joint roll link					SARITA			
xxii.	Fork make					RNG		SARITA	
11.4	i.	Modification/Trail (if any):	NIL						
	ii.	Deviations (if any):	NIL						

LWFAC-7011



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7013	DISPATCH DATE				04.08.17
2.	Railway	CR	Type	LWFAC	Coach No.	17005	
3.	Booked to		SSE/C&W/CSTM				
4.	Tare Weight of Coach		43.6 T				
5.	Carrying Capacity	Seating	24	Sleeping	24	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)	CBC Height		Specified : 1105 +0 /-15 mm		1100	1102	
v)	CBC (Make)		SANROK		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		VIBGYOR	91/89	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
i.	BRAKE EQUIPMENT				FAIVELEY		
ii.	BIO TOILET				RAIL FAB		
iii.	SEATS/ BERTHS				AAR KAY FOAMS		
iv.	BODY SIDE DOOR				JBM		
v.	VESTIBULE SLIDING DOOR				KALSI		
vi.	SALOON DOOR				KALSI		
vii.	WATER TANKS				RAIL TECH & SHIVALIK(US)		
viii.	UIC VESTIBULE				ESCORT		
ix	FLOOR BOARD				NARBADA		
x	PVC FLOORING				RESPONSIVE		
10.							
i	Modification / Trail (if any):		NIL				
ii	Deviations if any:		NIL				



रेल डिब्बा कारखाना
RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 176466467

11.	Bogie Details:	Shell No.	Railway		Type	Coach No.	Dispatch Date		
		7013	CR		LWSCE	17005/C	04-AUG-17		
11.1	Wheel & Axle Details:								
i.	Bogie No.	176466				176467			
ii.	Frame No.	ECBT-055				FIAT-5696			
iii.	Bolster No.	GT-6898				GT-6967			
iv.	Axle No.	V- 6938		S - 9545		N- 0989		R- 2971	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
vi.	Wheel Dia.	916.00	916.00	916.00	916.00	916.50	916.00	916.00	916.00
vii.	Wheel Disc No.	0003-6216	00125-6212	00170-6105	00034-6225	00093-6193	00089-6067	00102-6188	00189-6193
viii.	RB Nos.	03291	01712	03084	02843	01887	00829	01771	02047
ix.	RB Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
x.	RB Type	JIC CARTRIDGE TAPER ROLLER BEARING							
11.2	Secondary suspension load deflection Values:								
Description	Lateral Damper Side		Non-Lat. Damper Side		Lateral Damper Side		Non-Lat. Damper Side		
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & Nos.	FSK-17-2-53	GBD-16-12-146	FSK-17-2-125	GBD-16-12-145	FSK-17-2-126	GBD-16-12-168	FSK-17-2-94	GBD-16-12-155
ii.	Ht. at rest load	511.00	466.00	511.00	468.00	512.00	468.00	512.00	466.00
iii.	Align. deviation	11.00	12.00	9.00	6.00	12.00	12.00	11.00	11.00
11.3	Items traceability:								
Sno.	Item					Make			
i.	Primary Outer Spring	FSK-17-3				FSK			
ii.	Primary inner Spring	GF-12-6				GF			
iii.	Primary Damper	37494, 36233, 37193, 37349		36235, 36209, 36332, 33346		MONI			
iv.	Secondary Damper	119, 114				124, 127			
v.	Lateral Damper	268				183			
vi.	Break cylinder & Caliper	K16130, K16157, K16127, K16159		K16010, K16146, K16009, K16149		FTI			
vii.	Break Disc					KBI			
viii.	Control arm top					KUMAR			
ix.	Control arm bottom					KUMAR			
x.	Top rubber Pad					SCA			
xi.	Vertical Bump Stop					GMT			
xii.	Ball Joint Control arm					MGN			
xiii.	Lateral Bump stop					MGN			
xiv.	Traction center make					EMSON			
xv.	Traction lever make					APW SARITA			
xvi.	Ball joint traction lever					MGN			
xvii.	Traction center elastic					GMT			
xviii.	Secondary rubber pad					TECSPAK			
xix.	Rubber spring					GMT			
xx.	Anti roll bar make					SARITA			
xxi.	Ball joint roll link					SARITA			
xxii.	Fork make					SARITA			
11.4	i.	Modification/Trail (if any):	NIL						
	ii.	Deviations (if any):	NIL						

