



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6114	DISPATCH DATE				27.07.2017
2.	Railway	NR	Type	LWACCN	Coach No.	173130	
3.	Booked to	SSE/C&W/NDLS					
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	VIBGYOR	88/89		
	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	OVPL				
	iv.	BODY SIDE DOOR	JVR				
	v.	VESTIBULE SLIDING DOOR	HANSPAL				
	vi.	SALOON DOOR	--				
	vii.	WATER TANKS	AMIT & SHIVALIK				
	viii.	UIC VESTIBULE	SSIPL				
	ix	FLOOR BOARD	NARBADA				
	X	PVC	RESPONSIVE				
10.	Modification / Trail (if any):					FITTED WITH BIO DIGESTER OF M/s RAIL FAB	
	10.1	Deviations if any:				NIL	



11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6114	NR	LWACCN	173130	17-03-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176097			176098				
	ii.	Frame No.	FIAT-5278			FIAT-5181				
	iii.	Bolster No.	6628-P			6591-GT				
	iv.	Axle No.	N-0481		N-1063		N-0982		R--3433	
	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.	917.00	917.00	917.00	917.00	917.00	917.00	916.00	916.00
	vii.	Wheel Disc No.	00042/60 95	00144/61 76	00063/621 9	00135/61 93	00022/62 04	00149/61 77	00124/60 46	00030/606 9
	viii.	R.B. Nos.	05158	06672	93422	94527	35024	06661	35764	35287
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC 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-16-10-356	GBD-16-10-203	RSK-16-10-285	GBD-16-10-237	RSK-16-10-290	GBD-16-10-190	RSK-16-10-253	GBD-16-10-238	
ii.	Ht. at test load	514	468	514	468	515	468	514	468	
iii.	Align .deviation	5	11	2	7	6	7	6	6	
11.3	Items traceability:									
	Sno.	Item					Make			
	i.	Primary Outer Spring			GBD-16-12		GBD-16-12		GBD	
	ii.	Primary inner Spring			L&S-15-11		L&S-15-11		L&S	
	iii.	Primary Damper			36349,36120,36510,36150		36111,36121,35994,36577		KONI	
	iv.	Secondary damper			604,586		613,0671		SV	
	v.	Lateral Damper			0066		506		SV	
	vi.	Brake cylinder & Caliper			C17014/600,C17035/600 C17013/600,C17037/600		M16237/600,M16224/600 M16240/600,L16168/600		FTI	
	vii.	Brake Disc							FTI,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							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							SARITA	
	xv.	Traction lever make							SARITA	
	xvi.	Ball joint traction lever							MGN	
	xvii.	Traction centre elastic							SGA	
	xviii.	Secondary rubber pad							TECSPAK	
	x ix.	Rubber spring							GMT	
	x x.	Anti roll bar make							SARITA EMSON	
	x xi.	Ball joint roll link							SARITA	
	x xii.	Fork make							EMSON	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7011	DISPATCH DATE				27.07.2017
2.	Railway	NR	Type	LWACCN	Coach No.	173116	
3.	Booked to	SSE/C&W/NDLS					
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	VIBGYOR	89/90		
	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	RAIL FAB				
	iii.	SEATS/ BERTHS	OVPL				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	HANSPAL				
	vi.	SALOON DOOR					
	vii.	WATER TANKS	RAIL FAB, RAIL TECH & SHIVALIK				
	viii.	UIC VESTIBULE	ESCORTS/SSIPL				
	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		



रेल डिब्बा कारखाना
RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 176527528

11. Bogie Details:		Shell No.	Railway		Type	Coach No.	Dispatch Date		
					LWACCN				
11.1 Wheel & Axle Details:									
i.	Bogie No.	176527				176528			
ii.	Frame No.	FIAT-5737				FIAT-5708			
iii.	Bolster No.	P-7013				P-7027			
iv.	Axle No.	V-1486		S-9665		W-3491		R-2759	
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	917.00	917.00
vii.	Wheel Disc No.	00040-6225	00177-6202	00044-6196	00145-6225	00057-6180	00093-6212	00188-6202	00127-6107
viii.	RB Nos.	09097	08984	09384	09231	09327	09340	08902	01830
ix.	RB Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
x.	RB Type	UIC 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-17-4-100	GBD-17-04-160	FSK-17-04-101	GBD-17-04-192	FSK-17-04-037	GBD-17-4-173	FSK-17-4-053	GBD-17-4-164
ii.	Ht. at lest load	511.50	468.00	512.00	468.00	515.00	467.00	514.50	467.00
iii.	Align. deviation	8.00	6.00	9.00	7.00	10.00	6.00	11.00	7.00
Items traceability:									
11.3									
Sno.	Item					Make			
i.	Primary Outer Spring	FSK-17-03				FSK			
ii.	Primary inner Spring	RSK-16-06				RSK			
iii.	Primary Damper	33244, 33170, 33268, 33271		33239, 33253, 33185, 33413		KONI			
iv.	Secondary Damper	034, 09				17, 13			
v.	Lateral Damper	229				0144			
vi.	Break cylinder & Caliper	G16285, G16289, G16298, G16216		G16289, G16262, G16293, G16266		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					PRAG			
xiii.	Lateral Bump stop					MGN			
xiv.	Traction center make					EMSON			
xv.	Traction lever make					SARITA			
xvi.	Ball joint traction lever					MGN			
xvii.	Traction center elastic					SGA			
xviii.	Secondary rubber pad					DUREL			
xix.	Rubber spring					GMT			
xx.	Anti roll bar make					SARITA			
xxi.	Ball joint roll link					SARITA			
xxii.	FORK make					RNG			
11.4									
i.	Modification/Trail (if any):	NIL							
ii.	Deviations (if any):	NIL							

LWACCN-701



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7024	DISPATCH DATE				31.07.2017
2.	Railway	NR	Type	LWACCN	Coach No.	173123	
3.	Booked to	SSE/C&W/NDLS					
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)	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		3.80 ± 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	86/87		
	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 FAB				
	iii.	SEATS/ BERTHS	OVPL				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	HANSPAL				
	vi.	SALOON DOOR					
	vii.	WATER TANKS	RAIL TECH & SHIVALIK				
	viii.	UIC VESTIBULE	ESCORTS				
	ix	FLOOR BOARD	TWPL				
	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		



रेल डिब्बा कारखाना
RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 176564565

11. Bogie Details:		Shell No.	Railway		Type	Coach No.	Dispatch Date		
					LWACCN				
11.1 Wheel & Axle Details:									
i.	Bogie No.	176564				176565			
ii.	Frame No.	FIAT-5667				SCI-940			
iii.	Bolster No.	P-6692				P-7031			
iv.	Axle No.	W-3397		S-1935		W-8178		R-3067	
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	916.50	917.00	917.00	917.00	917.00
vii.	Wheel Disc No.	04914-6QH3	08928-6QH4	04960-6QH3	00320-6MG5	00092-6204	00144-6204	00084-6QH5	04719-6QG3
viii.	RB Nos.	02875	09156	03479	03180	03983	08779	02922	01831
ix.	RB Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
x.	RB Type	UIC 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-17-4-24	GSD-17-4-36	FSK-17-4-46	GSD-17-4-47	FSK-17-4-48	GSD-17-4-34	FSK-17-4-107	GSD-17-4-46
ii.	Ht. at lest load	510.50	468.00	512.50	468.00	513.00	466.00	515.00	467.00
iii.	Align. deviation	13.00	10.00	13.00	10.00	11.00	12.00	14.00	12.00
Items traceability:									
11.3									
Sno.	Item					Make			
i.	Primary Outer Spring	FSK-17-03				FSK			
ii.	Primary inner Spring	RSK-14-04				RSK			
iii.	Primary Damper	36310, 36205, 36126, 36102		36594, 36607, 36604, 36323		KONI			
iv.	Secondary Damper	10154, 10289				074, 073			
v.	Lateral Damper	182				181			
vi.	Break cylinder & Caliper	K16066, K16094, K16066, K16052				G16217, G16197, G16214, G16177			
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					MGN			
xiii.	Lateral Bump stop					MGN			
xiv.	Traction center make					EMSON			
xv.	Traction lever make					SARITA			
xvi.	Ball joint traction lever					SCA			
xvii.	Traction center elastic					SCA			
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			
11.4									
i.	Modification/Trail(if any):	NIL							
ii.	Deviations (if any):	NIL							

LWACCN-7024



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7005	DISPATCH DATE				31.07.2017
2.	Railway	NR	Type	LWACCN	Coach No.	173120	
3.	Booked to	SSE/C&W/NDLS					
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)	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	Max Pressure in BC	All Brake are applied	6 -10 sec	6 Sec	
			3.80 ± 0.15 Kg/cm ²	OK		3.80	
				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	88/89			
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 FAB, M K PRECISION	
iii.	SEATS/ BERTHS					OVPL	
iv.	BODY SIDE DOOR					JVR	
v.	VESTIBULE SLIDING DOOR					HANSPAL	
vi.	SALOON DOOR						
vii.	WATER TANKS					RAIL FAB, RAIL TECH & SHIVALIK	
viii.	UIC VESTIBULE					SSIPL	
ix	FLOOR BOARD					TWPL	
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	



रेल डिब्बा कारखाना
RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 176489490

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date		
					LWACCN				
11.1	Wheel & Axle Details:								
i.	Bogie No.	176489			176490				
ii.	Frame No.	FIAT-5537			FIAT-5621				
iii.	Bolster No.	P-7001			P-7000				
iv.	Axle No.	V-1791		S-9685	S-9437		W-2889		
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.	917.00	917.00	917.00	917.00	916.00	916.50	917.00	917.00
vii.	Wheel Disc No.	00069-6191	00191-6194	00072-6188	00089-6044	00131-6196	00094-6191	00175-6132	00134-6180
viii.	RB Nos.	03050	03178	01859	01197	02203	02093	00687	01879
ix.	RB Make	TIMKEN		TIMKEN	TIMKEN		TIMKEN		
x.	RB Type	UIC 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-17-4-23	GBD-16-12-39	FSK-17-4-57	GBD-16-12-67	FSK-17-4-38	GBD-16-12-64	FSK-17-4-3	GBD-16-12-102
ii.	Ht. at lest load	510.50	468.00	512.50	466.00	515.00	468.00	515.00	468.00
iii.	Align. deviation	10.00	9.00	9.00	6.00	12.00	12.00	10.00	11.00
	Items traceability:								
11.3	Sno. Item				Make				
i.	Primary Outer Spring	FSK-17-3			FSK-17-3		FSK		
ii.	Primary inner Spring	FSK-16-2			FSK-16-7		FSK		
iii.	Primary Damper	34001, 34219, 33974, 33935			33930, 34130, 35661, 34527		KONI		
iv.	Secondary Damper	065, 072			028, 061		GABRIEL		
v.	Lateral Damper	395			6000		SV		
vi.	Break cylinder & Caliper	M16122, M16279, M16125, M16278			H16285, H16027, H16283, H16026		FTI		
vii.	Break Disc						FTI 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						SARITA		
xvi.	Ball joint traction lever						SCA		
xvii.	Traction center elastic						SCA		
xviii.	Secondary rubber pad						TECSPACK		
xix.	Rubber spring						GMT		
xx.	Anti roll bar make						EMSON		
xxi.	Ball joint roll link						SARITA		
xxii.	FORK make						RNG		
11.4	i.	Modification/Trail (if any):	NIL						
	ii.	Deviations (if any):	NIL						

LWACCN-7005