



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5009	DISPATCH DATE				19.09.2015
2.	Railway	ECR	Type	LWLRRM	Coach No.	14852	
3.	Booked to	SSE/C&W/SPJ					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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	1104		
v)	Buffer/CBC (Make)	ESCORTS		Fiba Device	NA		
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	87	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:						Make
i.	BRAKE EQUIPMENT						FAIVELEY
iii.	CDTS						AIR FLOW
iv.	SEATS/S&B						GANDHI
v.	BODY SIDE DOOR						JBM
vi.	VESTIBULE SLIDING DOOR						KALSI
vii.	CREW-GEN & GUARD ROOM DOOR						CP/CP
viii.	WATER TANKS						KUTEER
ix	FUEL TANK						GAURAV
x	UIC VESTIBULE						SUNCREAST
XI	FLOOR BOARD						TAYAL
XII	PVC						RESPONSIVE
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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Rail Coach Factory , Kapurthala

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5009		ECR		LWLRRM		144852		01-09-2015	
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	156556					156557				
	ii.	Frame No.	FIAT-3963					FIAT-4019				
	iii.	Bolster No.	4809-VT					4818-VT				
	iv.	Axle No.	129252/982		125956/477			129125/299		127879/987		
	v.	Wheel Dia.	917.00	917.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	6213-00041	6229-00026	6213-00156	6232-00191	6212-00114	6212-00026	6212-00051	6229-00107		
	vii.	R.B. Nos.	22826	21941	29559	30190	30201	30195	30114	29518		
	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	Outer	Inner	
i.	Make & nos.	G-12-04-068	G-12-10-116	G-12-04-105	G-12-10-157	G-12-04-131	G-12-09-292	G-12-04-103	G-12-09-133			
ii.	Ht. at test load	511	467	512	468	513	470	513	468			
iii.	Align .deviation	8	11	12	11	12	11	15	12			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			L&S-12-5			L&S-12-5			L&S	
	ii.	Primary inner Spring			G-15-3			G-15-3			GF	
	iii.	Primary Damper			424,775,680,586			802,751,572,413			GEREP	
	iv.	Secondary damper			1125,1271			984,1055			GEREP	
	v.	Lateral Damper			405			154			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			141717/2000,141757/2000,141715/2000,141752/200			141708/2000,141808/2000,141779/2000,141813/2000			FTI	
	viii.	Brake Disc									FTI	
	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									EMSON	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

LPC-5009



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4039	DISPATCH DATE				15.09.2015
2.	Railway	ECR	Type	LWLRRM	Coach No.	14851	
3.	Booked to	SSE/C&W/SPJ					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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	NA		
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	85		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	FAIVELEY				
	iii.	CDTS	AIR FLOW				
	iv.	SEATS/S&B	GANDHI				
	v.	BODY SIDE DOOR	JBM				
	vi.	VESTIBULE SLIDING DOOR	KALSI				
	vii.	CREW-GEN & GUARD ROOM DOOR	CP/CP				
	viii.	WATER TANKS	E C BLADES, KUTEER				
	ix	FUEL TANK	GAURAV				
	x	UIC VESTIBULE	ELASTOMER				
	XI	FLOOR BOARD	TAYAL				
	XII	PVC	RESPONSIVE				
10.							
	10.1	Modification / Trail (if any):	NIL				
	10.2	Deviations if any:	NIL				



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

1 1.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4039	EC	LWLRRM	14851/C	17-11-2014			
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	146955				146956			
	ii.	Frame No.	ECBT-894				SCI/FM-46			
	iii.	Bolster No.	4280-P				4322-VT			
	iv.	Axle No.	106469/628	128954/986	105923/631	106624/632				
	v.	Wheel Dia.	918.00	918.00	918.00	918.00	917.00	917.00	918.00	918.00
	vi.	Wheel Disc No.	238-10559	298-10568	242-11600	073-10533	243-63309	240-63305	082-11611	299-11600
	vii.	R.B. Nos.	32096	37481	32036	37377	29278	37814	37346	37383
	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-12-10-204	G-12-10-127	G-12-10-203	G-12-10-194	CMGBD-14-7-29	G-12-6-185	CMGBD-14-7-13	G-12-6-219	
ii.	Ht. attest load	511	467	509	467	513	470	514	471	
iii.	Align .deviation	7	14	11	15	10	12	10	10	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	L&S-12-5		L&S-12-5		L&S			
	ii.	Primary inner Spring	L&S-13-3		L&S-13-02		L&S			
	iii.	Primary Damper	20943,22005,21674,22018		21852,21630,21160,20949		KONI			
	iv.	Secondary damper	NIL		NIL		SACHS			
	v.	Lateral Damper	2541		1319		KONI			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper					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					EMSON			
11.4	i.	Modification / Trial (if any):			NIL					
	ii.	Deviations (if any):			NIL					

LPC-4039