



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5051	DISPATCH DATE				24.12.2015	
2.	Railway	NER	Type	LWLRRM	Coach No.		15852	
3.	Booked to			SSE/C&W/GKP				
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		1100	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		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					RAIL FAB		
iv.	SEATS/S&B					GANDHI		
v.	BODY SIDE DOOR					JBM		
vi.	VESTIBULE SLIDING DOOR					KALSI		
vii.	CREW-GEN & GUARD ROOM DOOR					CONCEPT/JBM		
viii.	WATER TANKS					KUTEER & SHIVALIK		
ix	FUEL TANK					GAURAV		
x	UIC VESTIBULE					ESCORTS		
XI	FLOOR BOARD					NARBADA		
XII	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			
			5051	NE	LWLRRM	15852/C	22-09-2015			
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	156606				156594			
	ii.	Frame No.	FIAT-3956				FIAT-4153			
	iii.	Bolster No.	5010-VT				5005-VT			
	iv.	Axle No.	125602/377	106107/630	128892/990	126360/474				
	v.	Wheel Dia.	916.00	916.00	917.50	918.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	6191-00121	6191-00058	6232-00089	6232-00111	6191-00006	6191-00059	6148-00029	6229-00101
	vii.	R.B. Nos.	23211	29543	30097	30193	30087	30170	01235	01378
	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.	DN-12-11-304	HZ-NIL	DN-13-01-326	HZ-NIL	G-15-4-010	G-12-9-263	G15-4-060	G-12-9-323	
ii.	Ht. at test load	512	466.50	512	467.70	511	469	513	467	
iii.	Align .deviation	5	20.6	6	22.80	18	9	19	9	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			FSK-15-06		FSK-15-06		FSK	
	ii.	Primary inner Spring			G15-9		G15-9		GF	
	iii.	Primary Damper			1406,334,509,487		344,499,356,529		GEREP	
	iv.	Secondary damper			1116,615		1073,814		GEREP	
	v.	Lateral Damper			440		410		GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			G15015/2000,G15007/2000 G15048/2000,G15002/2000		G15037/2000,G15039/2000 G15044/2000,G15036/2000		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							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				

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4042	DISPATCH DATE			23.12.2015
2.	Railway	NER	Type	LWLRRM	Coach No.	15851
3.	Booked to	SSE/C&W/GKP				
4.	Tare Weight of Coach	53.4 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage
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	VIBGYOR	88	
	8.2	APPLICATION OF PCN-123	SATISFACTORY			
	8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:			Make		
	i.	BRAKE EQUIPMENT			KBI	
	iii.	CDTS			AIR FLOW	
	iv.	SEATS/S&B			AMIR CHAND	
	v.	BODY SIDE DOOR			JBM	
	vi.	VESTIBULE SLIDING DOOR			KALSI	
	vii.	CREW-GEN & GUARD ROOM DOOR			CONCEPT/JBM	
	viii.	WATER TANKS			KUTEER & SHIVALIK	
	ix	FUEL TANK			SHIVALIK	
	x	UIC VESTIBULE			ESCORTS	
	XI	FLOOR BOARD			NARBADA	
	XII	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	
			4042		NE		LWLRRM		15851/C		09-11-2015	
11.1	Wheel & Axle Details:		LPC-I PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	156833					156834				
	ii.	Frame No.	FIAT-4089					FIAT-4373				
	iii.	Bolster No.	5117-P					5233-9				
	iv.	Axle No.	129142/992		128337/991		114074/374		126609/480			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	6222-00190	6222-00125	6232-00030	6211-00081	6222-00023	6192-00010	7166-00151	7166-00138		
	vii.	R.B. Nos.	30535	06686	05796	34159	06186	06679	06689	06707		
	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.	GBD-15-5-2	G-13-5-040	GBD-15-5-15	G-13-5-084	GBD-15-3-72	DN-12-11-276	GBD-15-3-52	DN-12-11-269			
ii.	Ht. at test load	509	466	511	468	515	463	515	467			
iii.	Align .deviation	10	16	10	18	10	9	10	9			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			CMFSK-15-6			CMFSK-15-6			CMFSK	
	ii.	Primary inner Spring			G-15-3			G-15-3			GF	
	iii.	Primary Damper			25772,26208,26123,25780			25783,26136,25599,26174			KONI	
	iv.	Secondary damper			0048,0092			0017,0116			KNORR	
	v.	Lateral Damper			61			233			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			J5838/261,J5700/260 J5840/261,J5794/260			J5839/261,J5813/261 J5837/261,J5814/261			KBI	
	viii.	Brake Disc									FTI	
	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									MGN	
	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,EMSON	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

LPC-4042