



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4025	DISPATCH DATE			29.10.2014
2.	Railway	NR	Type	LWLRRM	Coach No.	13860
3.	Booked to	SSE/C&W/NDLS				
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)	ESCORT	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	GS	86	
	8.2	APPLICATION OF PCN-123	SATISFACTORY			
	8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:			Make		
	i.	BRAKE EQUIPMENT			KBI	
	iii.	CDTS			ESCORT	
	iv.	SEATS/S&B			GANDHI	
	v.	BODY SIDE DOOR			JBM,	
	vi.	VESTIBULE SLIDING DOOR			KALSI	
	vii.	CREW-GEN & GUARD ROOM DOOR			JBM/JBM	
	viii.	WATER TANKS			AMIT & SHIVALIK	
	ix	FUEL TANK			GAURAV	
	x	UIC VESTIBULE			KRP	
	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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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4025		NR		LWLRRM		13860		04-8-2014	
12.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	146859					146860				
	ii.	Frame No.	FIAT-3255					FIAT-3446				
	iii.	Bolster No.	4254-VT					4221-VT				
	iv.	Axle No.	105693/626		128878/990		105879/627		128318/991			
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	047-10533	120-11607	097-10583	092-61077	134-10583	150-61077	091-61077	153-11611		
	vii.	R.B. Nos.	32068	36679	31165	32001	31713	32357	36853	36361		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	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-13-4-072	G-13-4-148	G-13-4-061	G-13-4-149	G-12-8-394	G-12-8-218	G-12-8-334	G-12-8-222			
ii.	Ht. attest load	509	467	510	467	513	470	513	468			
iii.	Align .deviation	12	2	14	4	16	9	14	7			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			L&S-05-12		L&S-05-12		L&S			
	ii.	Primary inner Spring			L&S-04-12		L&S-04-12		L&S			
	iii.	Primary Damper							KONI			
	iv.	Secondary damper							SACHS			
	v.	Lateral Damper							KONI			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							KBI			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							SGA			
	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			
	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			
12.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

LPC-4025



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4026	DISPATCH DATE			11.11.2014	
2.	Railway	NR	Type	LWLRRM	Coach No.	143854	
3.	Booked to	SSE/C&W/NDLS					
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		1102	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	GS	86			
8.2	APPLICATION OF PCN-123						
8.3	INSUALTION						
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				JBM/JBM		
viii.	WATER TANKS				SHIVALIK		
ix	FUEL TANK				GAURAV		
x	UIC VESTIBULE				KRP		
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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12.	Bogie Details:	Shell No.		Railway		Type		Coach No.		Dispatch Date	
		4026		NR		LWLRRM		143854		06-09-2014	
12.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)				
	i.	Bogie No.	146729				146730				
	ii.	Frame No.	FIAT-3392				FIAT-3277				
	iii.	Bolster No.	4135-ECBT				4038-P				
	iv.	Axle No.	105988/631		106468/628		105871/627		106138/630		
	v.	Wheel Dia.	917.00	917.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	226-11600	078-11603	224-11605	262-11603	376-11603	290-11603	288-11610	083-10568	
	vii.	R.B. Nos.	36258	01458	01270	01328	01047	01150	00906	01234	
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN		
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
12.2	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-13-04-107	G-13-04-031	G-13-04-118	G-13-04-058	G-13-3-0672	G-13-6-300	G-13-3-0621	G-13-6-131		
ii.	Ht. attest load	512	468	511	465	514	470	512	470		
iii.	Align .deviation	13	18	12	18	12	10	16	11		
12.3	Items traceability:										
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make		
	i.	Primary Outer Spring			L&S-05-12		L&S-05-12		L&S		
	ii.	Primary inner Spring			G-05-12		G-05-12		GF		
	iii.	Primary Damper							KONI		
	iv.	Secondary damper							GEREP		
	v.	Lateral Damper							KONI		
	vi.	Yaw Damper							NIL		
	vii.	Brake cylinder & Caliper							KBI		
	viii.	Brake Disc							KBI		
	ix.	Ball joint Control arm							SGA		
	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		
12.4	i.	Modification / Trial (if any):				NIL					
	ii.	Deviations (if any):				NIL					



Rail Coach Factory , Kapurthala

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4028	DISPATCH DATE				17.11.2014
2.	Railway	NR	Type	LWLRRM	Coach No.	143855	
3.	Booked to	SSE/C&W/NDLS					
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		GS	85.5	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT			KBI			
iii.	CDTS			STONE INDIA			
iv.	SEATS/S&B			AMIR CHAND			
v.	BODY SIDE DOOR			JBM			
vi.	VESTIBULE SLIDING DOOR			KALSI			
vii.	CREW-GEN & GUARD ROOM DOOR			JBM/CONCEPT			
viii.	WATER TANKS			SHIVALIK			
ix	FUEL TANK			GAURAV, SHIVALIK			
x	UIC VESTIBULE			KRP/CEMCON			
XI	FLOOR BOARD			TAYAL			
XII	PVC			RESPONSIVE			
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4028		NR		LWLRRM		143855		25-8-2014	
12.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	146731					146732				
	ii.	Frame No.	FIAT-3399					FIAT-3395				
	iii.	Bolster No.	4124-ECBT					4054-P				
	iv.	Axle No.	W-4546		RWF-109994		RWF-109591		RWF-109749			
	v.	Wheel Dia.	917.00	917.00	916.00	915.50	915.00	915.00	916.00	916.00		
	vi.	Wheel Disc No.	221-10559	191-10568	023-10583	254-10570	011-10568	070-10570	011-10533	192-10559		
	vii.	R.B. Nos.	01178	01111	01128	00969	01177	01048	01102	00186		
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	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-13-4-046	G-13-4-044	G-13-4-155	G-13-4-098	G-13-3-0643	G-12-6-114	G-13-4-0633	G-12-6-256			
ii.	Ht. attest load	511	466	510	467	513	469	513	470			
iii.	Align .deviation	8	10	12	9	19	8	20	4			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			L&S-05-12		L&S-05-12		L&S			
	ii.	Primary inner Spring			G-12-5		G-12-5		GF			
	iii.	Primary Damper							KONI			
	iv.	Secondary damper							SACHS			
	v.	Lateral Damper							SACHS			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							-----			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							GMT			
	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			
12.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					