



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5001	DISPATCH DATE				13.05.2015
2.	Railway	NR	Type	LWACCW	Coach No.	153057	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	52					
5.	Carrying Capacity	Seating	52	Sleeping	52	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	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		3.00 ± 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	86/87		
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT					KBI	
ii.	CDTS/ BIO TOILET					AMIT	
iii.	SEATS/ BERTHS					SAVITRI	
iv.	BODY SIDE DOOR					SUKATA	
v.	VESTIBULE SLIDING DOOR					KALSI	
vi.	COMPTT.DOOR					KALSI	
vii.	WATER TANKS					SHIVALIK, KUTEER	
viii.	UIC VESTIBULE					CEMCON	
ix	FLOOR BOARD					TAYAL	
X	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	
			5001		NR		LWACCW		153057		09-01-2015	
12.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	156001					156002				
	ii.	Frame No.	FIAT-3662					FIAT-3689				
	iii.	Bolster No.	4399-VT					4423-VT				
	iv.	Axle No.	126495/481		Z-3763			R-3173		Z-3041		
	v.	Wheel Dia.	916.00	916.00	915.00	915.00	917.00	917.00	917.00	917.00		
	vi.	Wheel Disc No.	228-63307	145-63305	052-11603	064-11611	077-51912	050-63301	300-11600	242-63307		
	vii.	R.B. Nos.	36315	03268	03267	03230	36463	36356	36395	36171		
	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.	YR-13-12-098	YR-13-11-24	YR-13-12-025	YR-13-11-023	YR-13-12-097	YR-13-11-214	YR-13-12-99	YR-13-11-27			
ii.	Ht. attest load	507.10	466.00	507.90	465.30	511.60	465.50	511.00	466.40			
iii.	Align .deviation	33.22	21.84	30.39	25.69	30.97	29.72	28.79	28.23			
12.3	Items traceability:											
	S no.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			YR-13-11		YR-13-11		YR			
	ii.	Primary inner Spring			YR-13-12		YR-13-12		YR			
	iii.	Primary Damper							KONI			
	iv.	Secondary damper							GEREP			
	v.	Lateral Damper							GEREP			
	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							SARITA			
12.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5009	DISPATCH DATE				14.05.2015
2.	Railway	NR	Type	LWACCW	Coach No.	153058	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	52					
5.	Carrying Capacity	Seating	52	Sleeping	52	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	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1104	1104		
	v)	Buffer/CBC (Make)	FAIVELEY	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	GS	87/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	KBI				
	ii.	CDTS/ BIO TOILET	AMIT				
	iii.	SEATS/ BERTHS	AMIR CHAND				
	iv.	BODY SIDE DOOR	SUKATA				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	COMPTT.DOOR	KALSI				
	vii.	WATER TANKS	SHIVALIK, KUTEER				
	viii.	UIC VESTIBULE	CEMCON				
	ix	FLOOR BOARD	TAYAL				
	X	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	
			5009		NR		LWACCW		153058		07-02-2015	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156098						156099			
	ii.	Frame No.	FIAT-3781						FIAT-3760			
	iii.	Bolster No.	4493-GT						4480-GT			
	iv.	Axle No.	R-3200			A-3018			B-9946		W-4669	
	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.	255-63307	078-63301	213-63301	176-10582	138-11611	383-63309	269-63307	009-10582		
	vii.	R.B. Nos.	25128	25243	29987	41455	24350	27616	37445	32329		
	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.	CMGBD-12-10-18	HZ-13-050	CMGBD-12-10-84	HZ-13-080	CMGBD-12-10-83	HZ-13-087	CMGBD-12-10-85	HZ-13-085			
ii.	Ht. at test load	512	465.60	512	466.90	508	467.90	510	464.8			
iii.	Align .deviation	23	42	25	42.50	29	45.70	30	45.90			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			CMRSK-13-02		CMRSK-13-02		CMRSK			
	ii.	Primary inner Spring			CMRSK-14-5		CMRSK-14-05		CMRSK			
	iii.	Primary Damper							KONI			
	iv.	Secondary damper							GEREP			
	v.	Lateral Damper							GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							KBI			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							MGN			
	x.	Lateral Bump stop							MTC			
	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							SARITA			
12.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5007	DISPATCH DATE				14.05.2015
2.	Railway	NR	Type	LWACCW	Coach No.	153061	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	52					
5.	Carrying Capacity	Seating	52	Sleeping	52	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	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1102		
	v)	Buffer/CBC (Make)	FAIVELEY	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	89/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	KBI				
	ii.	CDTS/ BIO TOILET	AMIT				
	iii.	SEATS/ BERTHS	AMIR CHAND				
	iv.	BODY SIDE DOOR	SUKATA				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	COMPTT.DOOR	KALSI				
	vii.	WATER TANKS	SHIVALIK, KUTEER				
	viii.	UIC VESTIBULE	CEMCON				
	ix	FLOOR BOARD	NARBADA				
	X	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	
			5007		NR		LWACCW		153061		07-02-2015	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156100						156101			
	ii.	Frame No.	FIAT-3771						FIAT-3774			
	iii.	Bolster No.	4407-GT						4160-BT			
	iv.	Axle No.	B-9658			127057/476			B-9837		C-4713	
	v.	Wheel Dia.	916.00	916.00	916.00	915.50	916.00	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	298-11600	289-11611	251-63309	027-62314	261-10582	226-63301	036-10582	223-10582		
	vii.	R.B. Nos.	27005	27634	23495	38085	24286	37820	31277	36456		
	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	Outer	Inner	
i.	Make & nos.	CMGBD-12-10-202	HZ-13-810	CMGBD-12-10-205	HZ-13-750	CMGBD-12-10-201	HZ-13-026	CMGBD-12-10-36	HZ-13-002			
ii.	Ht. attest load	508	467	512	467.60	512	467.50	511	468			
iii.	Align .deviation	18	41.40	18	42.20	24	35.50	24	33.10			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie		Make		
	i.	Primary Outer Spring			CMRSK-13-02			CMRSK-13-02		CMRSK		
	ii.	Primary inner Spring			CMRSK-14-5			CMRSK-14-5		CMRSK		
	iii.	Primary Damper								KONI		
	iv.	Secondary damper								GEREP		
	v.	Lateral Damper								GEREP		
	vi.	Yaw Damper								NIL		
	vii.	Brake cylinder & Caliper								KBI		
	viii.	Brake Disc								KBI		
	ix.	Ball joint Control arm								MGN		
	x.	Lateral Bump stop								SGA		
	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					

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