



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4032	DISPATCH DATE			27.8.2014	
2.	Railway	SW	Type	LWACCN	Coach No.	14130	
3.	Booked to	SSE/C&W/SBC					
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)	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	3.80		
			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	NEROLAC	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	AIKON				
	iii.	SEATS/ BERTHS	SAVITRI				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	JBM				
	vi.	SALOON DOOR	NA				
	vii.	WATER TANKS	AMIT ,MANOJ & KUTEER				
	viii.	UIC VESTIBULE	KRP				
	ix	FLOOR BOARD & PVC	TAYAL & 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	
			4032		SWR		LWACCN		14130		11-07-2014	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146380						146383			
	ii.	Frame No.	FIAT-3083						FIAT-3087			
	iii.	Bolster No.	3797-P						3717-P			
	iv.	Axle No.	129665/986			127966/988			Z-3800		128512/983	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	915.00	915.00	916.50	916.00		
	vi.	Wheel Disc No.	351-11607	049-11600	314-11610	052-11607	324-10533	017-10583	175-11607	080-11610		
	vii.	R.B. Nos.	36263	36197	36215	34364	34403	00173	36313	36594		
	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	Outer	Inner	
i.	Make & nos.	G-13-5-836	G-13-5-4848	G-13-5-831	G-13-5-4823	G-13-5-731	G-13-5-541	G-13-5-812	G-13-5-5134			
ii.	Ht. attest load	513	467	511	467	512	463	513	466			
iii.	Align .deviation	20	14	19	12	20	14	22	15			
12.3	Items traceability:											
S no.		Item				PP Side Bogie		NPP side Bogie		Make		
i.		Primary Outer Spring				L&S-03-13		L&S-03-13		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								FTI		
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								SARITA		
12.4	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.	4029	DISPATCH DATE			26.8.2014	
2.	Railway	SW	Type	LWACCN	Coach No.	14129	
3.	Booked to	SSE/C&W/SBC					
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)	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	3.80		
			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	NEROLAC	87/87		
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		AIKON				
iii.	SEATS/ BERTHS		SAVITRI				
iv.	BODY SIDE DOOR		JBM				
v.	VESTIBULE SLIDING DOOR		JBM				
vi.	SALOON DOOR		NA				
vii.	WATER TANKS		AMIT & KUTEER				
viii.	UIC VESTIBULE		NA				
ix.	FLOOR BOARD & PVC		TAYAL & REPONSIVE				
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	
			4029		SWR		LWACCN		14129		23-07-2014	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146642						146643			
	ii.	Frame No.	FIAT-3300						FIAT-3251			
	iii.	Bolster No.	4042-P						4034-VT			
	iv.	Axle No.	125785/473			125984/475			128400/983		125957/477	
	v.	Wheel Dia.	915.00	915.00	915.50	915.00	915.50	915.00	916.00	916.00		
	vi.	Wheel Disc No.	105-10570	086-11611	170-10579	090-11600	207-10570	160-10559	116-10533	122-11600		
	vii.	R.B. Nos.	35818	35793	36005	36094	35886	36562	36266	35922		
	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	Outer	Inner	
i.	Make & nos.	G-13-4-834	G-13-4-5186	G-13-4-761	G-13-4-5170	G-13-4-850	G-13-4-5190	G-13-4-730	G-13-4-5164			
ii.	Ht. attest load	511	465	513	465	511	466	513	466			
iii.	Align .deviation	21	18	21	18	21	21	19	23			
12.3	Items traceability:											
S no.		Item				PP Side Bogie			NPP side Bogie			Make
i.		Primary Outer Spring				L&S-03-13			L&S-03-13			L&S
ii.		Primary inner Spring				L&S-05-12			L&S-05-12			L&S
iii.		Primary Damper										KONI
iv.		Secondary damper										SACHS
v.		Lateral Damper										SACHS
vi.		Yaw Damper										NIL
vii.		Brake cylinder & Caliper										FTI
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										SARITA
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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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4028	DISPATCH DATE			8.8.2014	
2.	Railway	SW	Type	LWACCN	Coach No.	14131	
3.	Booked to	SSE/C&W/SBC					
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)	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	3.80		
			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	NEROLAC	87.5/88.3		
	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	AIKON				
	iii.	SEATS/ BERTHS	SAVITRI				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	JBM				
	vi.	SALOON DOOR	SUKATA				
	vii.	WATER TANKS	AMIT ,MANOJ & KUTEER				
	viii.	UIC VESTIBULE	KRP				
	ix	FLOOR BOARD	TAYAL				
10.							
	i	Modification / Trail (if any):			NIL		
	ii	Deviations if any:			NIL		



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Rail Coach Factory , Kapurthala

12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4028	SW	LWACCN	14131/C	07-07-2014			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	146590				146591			
	ii.	Frame No.	FIAT-3266				FIAT-3144			
	iii.	Bolster No.	3990-VT				3981-P			
	iv.	Axle No.	127861/987		Z-3272		128664/019		RWF-110308	
	v.	Wheel Dia.	915.00	915.00	916.00	916.00	915.50	916.00	915.00	915.00
	vi.	Wheel Disc No.	142-63302	045-63301	141-10570	197-10583	059-63305	178-63301	195-51912	090-51912
	vii.	R.B. Nos.	34494	34573	00583	00123	34252	00128	34590	00292
	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.	BPS-2013-13	BPS-2013-218	BPS-2013-06	BPS-2013-011	BPS-2013-36	BPS-2013-214	BPS-2013-60	BPS-2013-212	
ii.	Ht. attest load	512	463	510	468	515	467	515	468	
iii.	Align .deviation	6	17	3	18	6	20	7	18	
12.3	Items traceability:									
	Sno.	Item	PP Side Bogie			NPP side Bogie		Make		
	i.	Primary Outer Spring	G-13-11			G-13-11		GF		
	ii.	Primary inner Spring	G-13-11			G-13-11		GF		
	iii.	Primary Damper						KONI		
	iv.	Secondary damper						SACHS		
	v.	Lateral Damper						SACHS		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper						FTI		
	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						SGA		
	xiv.	Traction centre elastic						SGA		
	xv.	Secondary rubber pad						TESPAK		
	xvi.	Rubber spring						GMT		
	xvii.	Anti roll bar make						SARITA		
	xviii.	Ball joint roll link						SARITA		
	xix.	Fork make						EMSON		
12.4	i.	Modification / Trial (if any):	NIL							
	ii.	Deviations (if any):	NIL							