



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4031	DISPATCH DATE				21.11.2014
2.	Railway	NER	Type	LWACCW	Coach No.	14086	
3.	Booked to			SSE/C&W/GKP			
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 Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1103	1104		
	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	VIBGYOR	85/86		
	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			VIBHU		
	iii.	SEATS/ BERTHS			AMIR CHAND		
	iv.	BODY SIDE DOOR			JBM		
	v.	VESTIBULE SLIDING DOOR			JBM		
	vi.	COMPTT.DOOR			RT		
	vii.	WATER TANKS			SHIVALIK,KUTEER		
	viii.	UIC VESTIBULE			KRP		
	ix	FLOOR BOARD			NARBADA		
	X	PVC & LP SHEET			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			
			4031	NER	LWACCW	14086	20-08-2014			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	146709				146710			
	ii.	Frame No.	FIAT-3270				FIAT-3377			
	iii.	Bolster No.	4107-VT				4109-VT			
	iv.	Axle No.	Z-3051		126458/481		126644/480		127963/988	
	v.	Wheel Dia.	917.00	917.00	916.00	916.00	916.00	916.50	915.50	916.00
	vi.	Wheel Disc No.	172-10568	313-11605	240-11605	150-10533	336-10568	220-10559	153-10559	081-11510
	vii.	R.B. Nos.	36491	36086	36594	36055	36457	36220	36499	35854
	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-12-5-928	G-12-5-1697	G-12-5-939	G-12-5-1756	G-12-5-1053	G-12-5-1801	G-12-5-1135	G-12-5-1959	
ii.	Ht. attest load	511	467	512	468	510	467	512	468	
iii.	Align .deviation	4	25	3	24	2	11	4	17	
12.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			G-12-10		G-12-10		GF	
	ii.	Primary inner Spring			G-12-3		G-12-3		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							FTI,KBI	
	ix.	Ball joint Control arm							GMT	
	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							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.	4024	DISPATCH DATE				02.12.2014
2.	Railway	NER	Type	LWACCW	Coach No.	14087	
3.	Booked to	SSE/C&W/GKP					
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 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	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	89/90		
	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	VIBHU				
	iii.	SEATS/ BERTHS	AMIR CHAND				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	JBM				
	vi.	COMPTT.DOOR	RAIL TECH				
	vii.	WATER TANKS	SHIVALIK, KUTEER				
	viii.	UIC VESTIBULE	KRP				
	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	
			4024		NE		LWACCW		14087/C		10-09-2014	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146779						146780			
	ii.	Frame No.	FIAT-3329						FIAT-3420			
	iii.	Bolster No.	3923-VT						3724-P			
	iv.	Axle No.	106251/629		106199/630		128663/989		Z-3774			
	v.	Wheel Dia.	916.50	916.50	916.50	916.50	915.00	915.00	916.00	916.00		
	vi.	Wheel Disc No.	149-10570	320-11605	105-10579	117-11603	052-10568	306-10568	194-10559	162-10559		
	vii.	R.B. Nos.	01294	01051	01021	01058	01404	01419	36581	36467		
	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.	G12-4-1076	G12-4-2103	G12-4-1086	G12-4-1906	G12-4-1084	G12-4-2109	G12-4-1083	G12-4-2040			
ii.	Ht. attest load	510	467	511	468	508	467	510	464			
iii.	Align .deviation	4	16	4	16	2	20	2	21			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			G-6-12		G-06-12		GF			
	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							FTI			
	viii.	Brake Disc							FTI			
	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							SGA			
	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					