



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4009	DISPATCH DATE			12.8.2014
2.	Railway	NF	Type	LS3	Coach No.	14426
3.	Booked to	SSE/C&W/GHY				
4.	Tare Weight of Coach	40.665 T				
5.	Carrying Capacity	Seating	100	Sleeping	NIL	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	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	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	SEAT & BERTH			MOHAN	
	iii	BODY SIDE DOORS			JBM	
	iv	WATER TANKS			RAIL FAB, RUBICON	
	v	FLOOR BOARD			TAYAL	
	VI	PVC			RESPONSIVE	
	VII	L P SHEET			PUNJAB LAMINATE	
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	
			4009		NF		LS3		14426/C		17-07-2014	
12.1	Wheel & Axle Details:		PP Side				NPP Side					
	i.	Bogie No.	146626				146627					
	ii.	Frame No.	FIAT-3240				FIAT-3276					
	iii.	Bolster No.	4000VT				4025-P					
	iv.	Axle No.	125770/473		Z-3806		126147/471		Z-3912			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00		
	vi.	Wheel Disc No.	152-11607	247-10559	026-10568	200-10570	179-11607	193-10570	341-11607	349-10579		
	vii.	R.B. Nos.	36169	36116	35868	36231	36646	36089	35962	36259		
	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-13-12-219	G-13-12-193	G-13-12-245	G-13-12-190	G-13-12-242	G-13-12-316	G-13-12-247	G-13-12-296		
ii.	Ht. attest load		514	470	512	470	512	471	513	471		
iii.	Align .deviation		2	18	4	19	3	16	4	17		
12.3	Items traceability:											
	S no.	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									GEREP	
	v.	Lateral Damper									SACHS	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper									FTI	
	viii.	Brake Disc									FTI	
	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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1.	SHELL No.	4002	DISPATCH DATE			8.8..2014	
2.	Railway	NF	Type	LS3	Coach No.	14425	
3.	Booked to	SSE/C&W/GHY					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	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		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	NEROLAC	87/88		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
I	BRAKE EQUIPMENT			KBI			
ii	SEAT & BERTH			MOHAN			
iii	BODY SIDE DOORS			JBM			
iv	WATER TANKS			RUBICON, RAIL FAB			
v	FLOOR BOARD			TAYAL			
VI	LP SHEETS			PUNJAB LAMINATE			
VII	PVC FLOORING			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	
			4002		NF		LS3		14425/C		20-05-14	
12.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	146342					146343				
	ii.	Frame No.	FIAT-2291					FIAT-3074				
	iii.	Bolster No.	3798-GT					3227-GT				
	iv.	Axle No.	RWF-109689		RWF-110523		RWF-109204		RWF-109951			
	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.	105-63307	272-63307	624-63309	284-63302	100-63301	206-63302	266-63309	068-63307		
	vii.	R.B. Nos.	91599	35363	92018	40523	40620	91591	35321	40817		
	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.	CMFSK-02-14-26	CVFSK-02-14-90	CMFSK-02-14-58	CVFSK-02-14-101	CMFSK-02-14-23	CVFSK-02-14-51	CMFSK-02-14-21	CVFSK-02-14-53			
ii.	Ht. attest load	516	471	514	471	514	468	513	472			
iii.	Align .deviation	6	7	8	6	12	6	8	7			
12.3	Items traceability:											
	S no.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			CMFSK-02-14		CMFSK-02-14		CMFSK			
	ii.	Primary inner Spring			CMFSK-02-14		CMFSK-02-14		CMFSK			
	iii.	Primary Damper							GEREP			
	iv.	Secondary damper							GEREP			
	v.	Lateral Damper							SACHS			
	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							



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1.	SHELL No.	4006	DISPATCH DATE				08.9.2014
2.	Railway	NFR	Type	LS3	Coach No.	14427	
3.	Booked to	SSE/C&W/GHY					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	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	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	86/87			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:					Make	
I	BRAKE EQUIPMENT				FAIVELEY		
li	SEAT & BERTH				OVPL		
lii	BODY SIDE DOORS				JBM		
lv	WATER TANKS				RAIL FAB		
v	FLOOR BOARD				ORIENTAL		
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	
			4006		NFR		LS3		14427		19-07-2014	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146630						146631			
	ii.	Frame No.	FIAT-3234						FIAT-3306			
	iii.	Bolster No.	3912-VT						3994-VT			
	iv.	Axle No.	Z-3742			126945/476			Z-3256		Z-3706	
	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.	126-11607	305-105680	69-10568	273-10579	161-10579	257-11600	025-10583	288-11600		
	vii.	R.B. Nos.	35788	36148	35883	36252	36167	35770	36127	36028		
	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.	DN-13-11-553	DN-13-11-397	DN-13-11-557	DN-13-11-317	DN-13-11-492	DN-13-11-319	DN-13-11-555	DN-13-11-190			
ii.	Ht. attest load	513	470	513	470	512	470	516	472			
iii.	Align .deviation	8	15	11	10	6	10	9	11			
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									GEREP	
	v.	Lateral Damper									SACHS	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper									FTI	
	viii.	Brake Disc									FTII	
	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				