



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4034	DISPATCH DATE				21.01.2015
2.	Railway	NER	Type	LS3	Coach No.	14531	
3.	Booked to	SSE/C&W/GKP					
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)	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	VIBGYOR	86/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			KBI		
	ii	SEAT & BERTH			MANOJ		
	iii	BODY SIDE DOORS			MOHAN, JBM		
	iv	WATER TANKS			RUBCONE		
	v	FLOOR BOARD			TAYAL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			MILTON		
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	
			4034		NER		LS3		14531		27-12-2014	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	147015						147016			
	ii.	Frame No.	FIAT-3573						FIAT-3641			
	iii.	Bolster No.	3906-P						4031-P			
	iv.	Axle No.	A-3156		128314/199		125568/377		Z-3077			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.00	916.00	916.00		
	vi.	Wheel Disc No.	227-63301	280-51912	155-10568	359-10568	358-11603	070-51916	074-11607	093-61077		
	vii.	R.B. Nos.	30916	02904	30930	36310	35800	35991	36470	36351		
	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.	G13-4-057	G13-4-182	G13-4-114	G13-4-061	G13-4-068	G13-4-187	G13-4-039	G13-4-036			
ii.	Ht. attest load	513	470	513	471	514	471	514	469			
iii.	Align .deviation	4	10	4	11	6	17	4	17			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			G-14-4		G-14-4		GF			
	ii.	Primary inner Spring			G-14-4		G-14-4		GF			
	iii.	Primary Damper							GEREP			
	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							SGA			
	xv.	Secondary rubber pad							TESPAK			
	xvi.	Rubber spring							GMT			
	xvii.	Anti roll bar make							EMSON			
	xviii.	Ball joint roll link							SARITA/MGN			
	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.	4035	DISPATCH DATE				14.01.2015
2.	Railway	NER	Type	LS3	Coach No.	14530	
3.	Booked to	SSE/C&W/GKP					
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)	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	Max Pressure in BC	6 –10 sec	6 Sec		
		All Brake are applied		3.00 ± 0.15 Kg/cm ²	3.00		
				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	ADVANCE	87/88			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:					Make	
I	BRAKE EQUIPMENT				KBI		
li	SEAT & BERTH				MANOJ		
lii	BODY SIDE DOORS				JBM, MRC		
lv	WATER TANKS				RUBICON		
v	FLOOR BOARD				TAYAL		
VI	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	
			4035		NER		LS3		14530/C		23-12-2014	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	147017						147018			
	ii.	Frame No.	FIAT-3560						FIAT-3636			
	iii.	Bolster No.	3710-VT						4145-ECBT			
	iv.	Axle No.	A-2793			A-2866			105733/626		A-3140	
	v.	Wheel Dia.	916.00	916.00	916.00	916.50	916.00	915.50	916.00	916.00		
	vi.	Wheel Disc No.	234-51908	345-10568	072-51607	305-10559	018-51910	198-51910	309-51908	221-11596		
	vii.	R.B. Nos.	31348	30553	02973	30244	30281	31528	32212	31664		
	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.	G14.3.14.020	G14.3.14.232	G14.3.14.004	G14.3.14.204.75	G.14.3.1.4.3T	G14.3.4.245	G14.3.1.4.165	G14.3.1.4.201			
ii.	Ht. attest load	515	470	514	471	516	469	514	469			
iii.	Align .deviation	4	16	2	14	2	12	1	9			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			G-14-3		G-14-3		GF			
	ii.	Primary inner Spring			G-14-4		G-14-4		GF			
	iii.	Primary Damper							GEREP			
	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/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							SGA			
	xv.	Secondary rubber pad							TESPAK			
	xvi.	Rubber spring							GMT			
	xvii.	Anti roll bar make							EMSON			
	xviii.	Ball joint roll link							SARITA/MGN			
	xix.	Fork make							EMSON			
12.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

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