



ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4007	DISPATCH DATE			14.5.2014	
2.	Railway	NF	Type	LWSCN1	Coach No.	13231	
3.	Booked to		SSE/C&W/GHY				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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	85.8/86.5	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
i	BRAKE EQUIPMENT			FAIVELEY			
ii	SEAT & BERTH			GANDHI			
iii	BODY SIDE DOORS			JBM			
iv	WATER TANKS			AMIT & SHIVALIK			
v	FLOOR BOARD			TAYAL			
vi	PVC FLOORING			RESPONSIVE			
vii	UIC VESTIBULE			KRP			
viii	VESTIBULE SLIDING DOOE			JBM			
10.							
10.1	Modification / Trail (if any):			NIL			
10.2	Deviations if any:			NIL			



12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4007	NF	LWSCN1	13231	29-04-2014			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	146361				146389			
	ii.	Frame No.	FIAT-3054				FIAT-3107			
	iii.	Bolster No.	3787-GT				3769-VT			
	iv.	Axle No.	W-4700		RWF-109889		RWF-109938		RWF-109155	
	v.	Wheel Dia.	917.00	917.00	917.00	917.50	918.00	918.00	918.00	918.00
	vi.	Wheel Disc No.	145-51910	151-51916	003-51908	313-51915	272-51912	255-51912	064-46889	193-46889
	vii.	R.B. Nos.	92198	06898	91624	91596	40543	40483	91507	12591
	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.	G-12-13-276	G-12-13-725	G-12-13-278	G-12-13-343	G-12-13-234	G-12-13-324	G-12-13-237	G-12-13-307	
ii.	Ht. attest load	512	470	512	471	515	471	514	470	
iii.	Align .deviation	3	16	2	15	3	22	1	22	
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							GEREP	
	iv.	Secondary damper							GEREP	
	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							GMT	
	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					



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4005	DISPATCH DATE			14.5.2014	
2.	Railway	NF	Type	LWSCN1	Coach No.	13232	
3.	Booked to		SSE/C&W/GHY				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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		VIBGYOR	86.5/87	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
i	BRAKE EQUIPMENT			FAIVELEY			
ii	SEAT & BERTH			GANDHI			
iii	BODY SIDE DOORS			JBM			
iv	WATER TANKS			AMIT & SHIVALIK			
v	FLOOR BOARD			TAYAL			
vi	PVC FLOORING			RESPONSIVE			
vii	UIC VESTIBULE			KRP			
viii	VESTIBULE SLIDING DOOR			JBM			
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				
		4005	NF	LS	13232	28-4-14				
12.1	Wheel & Axle Details:	PP Side				NPP Side				
	i.	Bogie No.	146360				146388			
	ii.	Frame No.	FIAT-3075				FIAT-3058			
	iii.	Bolster No.	3784-GT				3766-VT			
	iv.	Axle No.	RWF-109606		RWF-109653		RWF-110535		W-4503	
	v.	Wheel Dia.	918.00	918.00	917.00	917.00	918.00	918.00	917.00	917.00
	vi.	Wheel Disc No.	043-51908	228-51912	233-51908	138-51916	198-51916	024-51910	360-51916	357-51910
	vii.	R.B. Nos.	06909	92162	06912	92186	91749	92187	06904	06921
	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.	G-12-13-289	G-12-13-419	G-12-13-203	G-12-13-363	G-12-13-230	G-12-13-330	G-12-13-201	G-12-13-293	
ii.	Ht. attest load	514	470	514	470	513	470	512	471	
iii.	Align .deviation	4	21	2	18	2	16	5	16	
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					GEREP			
	iv.	Secondary damper					GEREP			
	v.	Lateral Damper					SACHS			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper					FTI			
	viii.	Brake Disc					KBI			
	ix.	Ball joint Control arm					GMT			
	x.	Lateral Bump stop					GMT			
	xi.	Traction center make					EMSON			
	xii.	Traction lever make					SARITA			
	xiii.	Ball joint traction lever					SGA			
	xiv.	Traction centre elastic					GMT			
	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							



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4008	DISPATCH DATE			16.5.2014	
2.	Railway	NF	Type	LWSCN1	Coach No.	13233	
3.	Booked to	SSE/C&W/GHY					
4.	Tare Weight of Coach	41.239 T					
5.	Carrying Capacity	Seating	80	Sleeping	80	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	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			GANDHI		
	iii	BODY SIDE DOORS			JBM		
	iv	WATER TANKS			AMIT & KUTEER		
	v	FLOOR BOARD			TAYAL		
	vi	PVC FLOORING			RESPONSIVE		
	vii	UIC VESTIBULE			KRP		
	viii	VESTIBULE SLIDING DOOR			JBM		
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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Rail Coach Factory , Kapurthala

12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4008		NF		LS		13233		29-4-14	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146366						146367			
	ii.	Frame No.	FIAT-3018						FIAT-2930			
	iii.	Bolster No.	3773-GT						3809-GT			
	iv.	Axle No.	RWF-110225		RWF-110346		RWF-110357		W-4613			
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	918.00	918.00	918.00	918.00		
	vi.	Wheel Disc No.	162-51916	055-51915	077-51916	171-51912	072-51916	345-51910	334-51910	154-51916		
	vii.	R.B. Nos.	11672	91516	11619	11613	11602	09089	08549	04296		
	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-5	CMFSK-84	CMFSK-42	CMFSK-60	CMFSK-79	CMFSK-17	CMFSK-107			
ii.	Ht. attest load		513	472	515	470	514	470	513	469		
iii.	Align .deviation		7	4	9	7	9	6	7	4		
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			CMFSK		CMFSK		CMFSK			
	ii.	Primary inner Spring			CMFSK		CMFSK		CMFSK			
	iii.	Primary Damper							GEREP			
	iv.	Secondary damper							GEREP			
	v.	Lateral Damper							SACHS			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							FTI			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							GMT			
	x.	Lateral Bump stop							GMT			
	xi.	Traction center make							EMSON			
	xii.	Traction lever make							SARITA			
	xiii.	Ball joint traction lever							SGA			
	xiv.	Traction centre elastic							GMT			
	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					