



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4004	DISPATCH DATE				05.9.2014
2.	Railway	NR	Type	LWACCW	Coach No.	143063	
3.	Booked to	SSE/C&W/NDLS					
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	Max Pressure in BC	6 -10 sec	3.00 ± 0.15 Kg/cm ²	6 Sec	
		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	87/87			
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			AMIT			
iii.	SEATS/ BERTHS			MOHAN			
iv.	BODY SIDE DOOR			JBM			
v.	VESTIBULE SLIDING DOOR			JBM			
vi.	COMPTT.DOOR			SUKATA			
vii.	WATER TANKS			AMIT & E C BLADES			
viii.	UIC VESTIBULE			KRP			
ix	FLOOR BOARD			TAYAL			
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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Date: 7-04-2014

RLY	NR	Type	LWACCW	Coach No.	143063
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6.0 Wheel & Axle details:

Items	PP Side				Non PP Side			
Bogie No.	146306				146307			
Frame No.	FIAT-2443				FIAT-2988			
Bolster No.	163-HEI				164-HEI			
Axle No.	RWF-109428		RWF-109772		RWF-110027		R-2221	
Wheel Diameter	918.00	918.00	918.00	918.00	918.00	918.00	918.00	917.50
Wheel Disc No.	299-50798	078-50859	182-50854	295-50854	009-50857	143-50846	252-50798	083/50846
R.B. Nos.	04915	04940	04989	04930	04936	05063	04714	05043
R. B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
RB Type	CARTRIDGE TAPER ROLLER BEARING							

6.1 Secondary suspension load deflection Values:

Description	Bogie PP side				Bogie NPP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & nos.	DN-12-6-2660	G13-4-4452	DN-12-6-2679	G13-4-4462	DN12-6-2617	G13-4-4260	DN12-6-2610	G13-4-4627
Ht. Attest Load	509	465	508	465	509	465	508	466
Align. deviation	18	11	14	13	19	14	19	13

6.2 Component traceability:

SNO	ITEM	PP Side Bogie	NPP side Bogie	Make
1	Primary Outer Spring batch no.	L&S-08-12	L&S-08-12	L&S
2	Primary inner Spring batch no	L&S-05-12	L&S-05-12	L&S
3	Primary Damper			GEREP
4	Secondary damper			SACHS
5	Lateral Damper			KONI
6	Brake cylinder & Caliper	C-14137/600,C-14051/600, C-14114/600,C-14147/600	C-14117/600,C-114125/600, C-14056/600,C-114135/600	FTI
7	Brake Disc			FTI
8	Ball joint Control arm			GMT
9	Lateral Bump stop			GMT
10	Traction center make			SARITA
11	Traction lever make			SARITA
12	Ball joint traction lever			SGA
13	Ball joint Traction centre			GMT
14	Secondary rubber pad			TESPAK
15	Rubber spring			GMT
16	Anti roll bar make			SARITA
17	Roll link make			SARITA
18	Fork make			EMSON

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4014	DISPATCH DATE				17.10.2014
2.	Railway	NR	Type	LWACCW	Coach No.		143064
3.	Booked to			SSE/C&W/NDLS			
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		NEROLAC	86/86.5	
	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			AIR FLOW		
	iii.	SEATS/ BERTHS			MOHAN		
	iv.	BODY SIDE DOOR			JBM		
	v.	VESTIBULE SLIDING DOOR			JBM		
	vi.	COMPTT.DOOR			SUKATA, RAIL TECH		
	vii.	WATER TANKS			AMIT		
	viii.	UIC VESTIBULE			KRP		
	ix	FLOOR BOARD			ORIENTAL		
	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	
			4014		NR		LWACCW		143064		27-05-14	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146477						146476			
	ii.	Frame No.	FIAT-3145						FIAT-3156			
	iii.	Bolster No.	3714VT						3764-P			
	iv.	Axle No.	RWF-109329			RWF-109880			RWF-109460		RWF-110634	
	v.	Wheel Dia.	916.50	917.00	915.00	915.00	916.00	915.50	916.50	917.00		
	vi.	Wheel Disc No.	125-63307	053-63307	011-63307	031-63305	342-50846	333-50846	042-63307	057-63307		
	vii.	R.B. Nos.	11630	11604	91867	12627	12434	12010	03537	11601		
	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.	BPS-2013-54	BPS-2013-083	BPS-2013-82	BPS-2013-05	BPS-2013-5	BPS-2013-167	BPS-2013-29	BPS-2013-04			
ii.	Ht. attest load	507	468	509	468	507	467	508	468			
iii.	Align .deviation	7	32	8	27	5	13	4	16			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			BPS-2013			BPS-2013			BPS	
	ii.	Primary inner Spring			BPS-2013			BPS-2013			BPS	
	iii.	Primary Damper									GEREP	
	iv.	Secondary damper									GEREP	
	v.	Lateral Damper									GEREP	
	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									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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Form No. : QMF 9454; Version: 1

1.	SHELL No.	4001	DISPATCH DATE			29.9.2014	
2.	Railway	NR	Type	LWACCW	Coach No.	143071	
3.	Booked to			SSE/C&W/NDLS			
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	87/87.2		
	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		AIR FLOW			
	iii.	SEATS/ BERTHS		MOHAN			
	iv.	BODY SIDE DOOR		SUKATA, JBM			
	v.	VESTIBULE SLIDING DOOR		JBM			
	vi.	COMPTT.DOOR		RAIL TECH			
	vii.	WATER TANKS		AMIT & KUTEER			
	viii.	UIC VESTIBULE		KRP			
	ix	FLOOR BOARD		TAYAL			
	XI	PVC		RESPONSIVE			
	XII	L P SHEET		KAE			
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	
			4001		NR		LWBAC		143071/C		16-5-14	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146439						146445			
	ii.	Frame No.	FIAT-3138						FIAT-2834			
	iii.	Bolster No.	HEI----						118-HEI			
	iv.	Axle No.	W-4584			W-4630			RWF-110313		RWF-109228	
	v.	Wheel Dia.	916.00	916.00	915.50	915.00	916.00	916.00	916.50	916.50		
	vi.	Wheel Disc No.	185-63302	119-63307	191-63307	090-63302	321-63309	294-63307	140-63309	666-63301		
	vii.	R.B. Nos.	07863	09163	91519	91554	07858	08271	07869	07322		
	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.	BPS-2013-17	BPS-2013-225	BPS-2013-83	BPS-2013-223	BPS-2013-50	BPS-2013-209	BPS-2013-107	BPS-2013-153			
ii.	Ht. attest load	507	463	507	463	507	468	507	466			
iii.	Align .deviation	7	28	7	24	4	15	4	13			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie		Make		
	i.	Primary Outer Spring			BPS-2013			BPS-2013		BPS		
	ii.	Primary inner Spring			BPS-2013			BPS-2013		BPS		
	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								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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