



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

ROLLING STOCK CERTIFICATE

				Form No. :	QMF 9454; Version: 1		
1.	SHELL No.	4002	DISPATCH DATE			25.6.2014	
2.	Railway	NR	Type	LWFAC	Coach No.		143002
3.	Booked to			SSE/C&W/NDLS			
4.	Tare Weight of Coach		43.6 T				
5.	Carrying Capacity	Seating	24	Sleeping	24	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	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	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					AAR KAY FOAMS	
iv.	BODY SIDE DOOR					JBM	
v.	VESTIBULE SLIDING DOOR					JBM	
vi.	SALOON DOOR					JBM	
vii.	WATER TANKS					AMIT & E C BLADE	
viii.	UIC VESTIBULE					KRP	
ix	FLOOR BOARD					TAYAL	
x	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	NR	LWFAC	143002	23-05-14

12.1 Wheel & Axle Details:	PP Side				NPP Side			
i. Bogie No.	146378				146379			
ii. Frame No.	FIAT-3119				FIAT-3088			
iii. Bolster No.	113-HEI				123-HEI			
iv. Axle No.	RWF-110109	RWF-109817	RWF-109678	RWF-109400				
v. Wheel Dia.	915.00	915.00	915.00	915.00	915.00	915.00	915.50	915.50
vi. Wheel Disc No.	00135-07756	00210-07756	00080-07756	00006-07756	062-63309	126-63307	230-63309	193-63309
vii. R.B. Nos.	06893	77208	91533	06923	77132	12600	07016	77160
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		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
i. Make & nos.	DN-2-12-2596	G-11-12-3846	DN-2-12-2574	G-11-12-4077	DN-3-13-2177	G-11-12-4108	DN-3-13-3606	G-11-12-4124
ii. Ht. attest load	507	467	508	467	503	465	507	464
iii. Align .deviation	14	16	17	17	21	32	23	29

12.3 Items traceability:	Sno.	Item	PP Side Bogie	NPP side Bogie	Make
	i.	Primary Outer Spring	L&S-02-13	L&S-02-13	L&S
	ii.	Primary inner Spring	L&S-02-13	L&S-05-13	L&S
	iii.	Primary Damper			GEREP
	iv.	Secondary damper			GEREP
	v.	Lateral Damper			GEREP
	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			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



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Page 1 of 3

ROLLING STOCK CERTIFICATE

				Form No. :	QMF 9454; Version: 1			
1.	SHELL No.	4003	DISPATCH DATE			25.6.2014		
2.	Railway	NR	Type	LWFAC	Coach No.	143001		
3.	Booked to	SSE/C&W/NDLS						
4.	Tare Weight of Coach	43.6 T						
5.	Carrying Capacity	Seating	24	Sleeping	24	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	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	GS	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				AAR KAY FOAMS		
	iv.	BODY SIDE DOOR				JBM		
	v.	VESTIBULE SLIDING DOOR				JBM		
	vi.	SALOON DOOR				JBM		
	vii.	WATER TANKS				AMIT & RAIL FAB		
	viii.	UIC VESTIBULE				KRP		
	ix	FLOOR BOARD				TAYAL		
	x	PVC FLOORING				RESPONSIVE		
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
	4003	NR	LWFAC	143001/C	17-5-14

12.1 Wheel & Axle Details:	PP Side				NPP Side			
i. Bogie No.	146435				146446			
ii. Frame No.	FIAT-3065				FIAT-2916			
iii. Bolster No.	2831-GT				3198-GT			
iv. Axle No.	RWF-109893	RWF-110297	RWF-110099	W-4671				
v. Wheel Dia.	915.50	915.00	915.00	915.00	917.00	917.00	916.50	916.00
vi. Wheel Disc No.	369-63307	261-63305	032-51916	123-51915	342-63309	087-63302	151-62314	249-63307
vii. R.B. Nos.	09299	07182	09074	77131	77348	77370	09081	77181
viii. R.B. Make	SKF		SKF		SKF		SKF	
ix. RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							

12.2 Secondary suspension load deflection Values:	Secondary 1				Secondary 2			
Description	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
i. Make & nos.	BPS-2013-87	BPS-2013-	BPS-2013-52	2013-	BPS-2013-124	BPS-2013-55	BPS-2013-2	BPS-2013-139
ii. Ht. attest load	507	463	507	463	507	463	510	468
iii. Align .deviation	2	22	4	23	6	19	3	19

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