



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	3152	DISPATCH DATE			27.5.2014	
2.	Railway	NR	Type	LWACCN	Coach No.	143110	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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 <sup>2</sup>		6 –10 sec	6 Sec	
			Max Pressure in BC		3.80 ± 0.15 Kg/cm <sup>2</sup>	3.80	
			All Brake are applied		OK	OK	
7.2	Insensitivity		Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK	
7.3	Sensitivity		Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT		MAKE	AVERAGE GLOSS VALUE	
8.1	PAINT		PU PAINT		VIBGYOR	90/92	
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		RAIL FAB				
iii.	SEATS/ BERTHS		SAVITRI				
iv.	BODY SIDE DOOR		JBM				
v.	VESTIBULE SLIDING DOOR		JBM				
vi.	SALOON DOOR/COMPTT.DOOR		J R INDUSTRIES				
vii.	WATER TANKS		AMIT				
viii.	UIC VESTIBULE		KRP				
ix	FLOOR BOARD		TAYAL				
10.							
10.1	Modification / Trail (if any):			FITTED WITH BIO DIGESTER OF M/s RAIL FAB			
10.2	Deviations if any:			NIL			



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Shell No.:- 3152

Date: 20-02--2014

RLY	NR	Type	LWACCN	Coach No.	143110
-----	----	------	--------	-----------	--------

6.0 Wheel & Axle details:

Items	PP Side				Non PP Side			
Bogie No.	146114				146115			
Frame No.	FIAT-2816				FIAT-2858			
Bolster No.	3616-GT				3217-GT			
Axle No.	T-2262		G-8544		G-8284		R-3131	
Wheel Diameter	918.00	918.00	918.00	918.00	918.00	918.00	918.00	918.00
Wheel Disc No.	137-46433	019-50846	303-50800	236-50796	033-48022	103-46820	083-50854	198-50857
R.B. Nos.	04579	04562	04567	05050	03302	03549	03577	03316
R. B. Make	TIM		TIM		TIM		TIM	
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-13-1-1421	G13-4-5307	DN-13-1349	G13-4928	DN-13-1-1441	G-13-4-5278	DN-13-1-1458	G-13-4-4784
Ht. Attest Load	509	468	506	466	510	466	506	465
Align. deviation	10	15	12	13	11	16	14	16

6.2 Component traceability:

SNO	ITEM	PP Side Bogie	NPP side Bogie	Make
1	Primary Outer Spring batch no.	L&S-03-13	L&S-03-13	L&S
2	Primary inner Spring batch no	L&S-05-12	L&S-05-12	L&S
3	Primary Damper			SV
4	Secondary damper			GEREP
5	Lateral Damper			GEREP
6	Brake cylinder & Caliper	13192-600,13196/600,13190/600,13195/600	N-13114/600,N-13133/600,N-13130/600,N-13132/600	FTI
7	Brake Disc			FTI
8	Ball joint Control arm			SGA
9	Lateral Bump stop			GMT
10	Traction center make			SARITA
11	Traction lever make			SARITA
12	Ball joint traction lever			GMT
13	Ball joint Traction centre			SGA
14	Secondary rubber pad			TESPAK
15	Rubber spring			GMT
16	Anti roll bar make			SARITA
17	Roll link make			SARITA
18	Fork make			EMSON

LWACCN-3152



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	3151	DISPATCH DATE				29.5.2014
2.	Railway	NR	Type	LWACCN	Coach No.	143109	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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	1102	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 <sup>2</sup>		6 –10 sec		6 Sec	
		Max Pressure in BC		3.80 ± 0.15 Kg/cm <sup>2</sup>		3.80	
		All Brake are applied		OK		OK	
7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application		OK	
7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply		OK	
8.	PAINTING DEATAILS:	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE			
8.1	PAINT	PU PAINT	VIBGYOR	89/89.5			
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	RAIL FAB					
iii.	SEATS/ BERTHS	SAVITRI					
iv.	BODY SIDE DOOR	JBM					
v.	VESTIBULE SLIDING DOOR	JBM					
vi.	SALOON DOOR/COMPTT.DOOR	SUKATA					
vii.	WATER TANKS	AMIT & SHIVALIK					
viii.	UIC VESTIBULE	KRP					
ix.	FLOOR BOARD	TAYAL					
10.							
10.1	Modification / Trail (if any):	FITTED WITH BIO DIGESTER OF M/s RAIL FAB					
10.2	Deviations if any:	NIL					



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Shell No.:-3151

Date: 03-02--2014

RLY	NR	Type	LWACCN	Coach No.	143109
-----	----	------	--------	-----------	--------

6.0 Wheel & Axle details:

Items	PP Side				Non PP Side			
Bogie No.	146122				146128			
Frame No.	FIAT-2903				FIAT-2644			
Bolster No.	3623GT				3418-P			
Axle No.	RWF-110047		RWF-108903		RWF-96706		RWFR109616	
Wheel Diameter	918.00	918.00	917.00	917.00	916.00	916.00	916.00	916.00
Wheel Disc No.	292-50854	072-48032	220-50859	236-50857	176-46433	210-50854	071-50798	340-50857
R.B. Nos.	03713	03427	03795	03769	03758	04918	04920	04921
R. B. Make	TIM		TIM		TIM		TIM	
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-13-1-1550	G13-4A-4940	DN13-3-1688	G13-4G-5320	G13-3-0707	G13-3-4718	G13-3-0622	G13-3-4720
Ht. Attest Load	509	466	507	465	512	468	513	468
Align. deviation	8	15	7	13	18	13	17	11

6.2 Component traceability:

SNO	ITEM	PP Side Bogie	NPP side Bogie	Make
1	Primary Outer Spring batch no.	L&S-02-13	L&S-02-13	L&S
2	Primary inner Spring batch no	G-12-5	G-12-5	GF
3	Primary Damper			SACHS
4	Secondary damper			SACHS
5	Lateral Damper			SACHS
6	Brake cylinder & Caliper	N13191/600,N13197/600 N13193/600,N13200/690	N13105/690,N13121/690 N13101/600,N13122/600	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			SGA
14	Secondary rubber pad			TESPAK
15	Rubber spring			GMT
16	Anti roll bar make			SARITA
17	Roll link make			SARITA
18	Fork make			EMSON

LWACCN-3151



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			6.6.2014	
2.	Railway	NR	Type	LWACCN	Coach No.	143112	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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 <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.80 ± 0.15 Kg/cm <sup>2</sup>	3.80		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	NEROLAC	86.1/87		
	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	OVPL				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	JBM				
	vi.	COMPTT.DOOR	SUKATA				
	vii.	WATER TANKS	AMIT & JINDAL STEEL				
	viii.	UIC VESTIBULE	KRP				
	ix	FLOOR BOARD	TAYAL				
10.							
	10.1	Modification / Trail (if any):	FITTED WITH BIO DIGESTER OF M/s RAIL FAB				
	10.2	Deviations if any:	NIL				



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Shell No.:- 4008

Date: 11-02--2014

RLY	NR	Type	LACCN	Coach No.	143112
-----	----	------	-------	-----------	--------

6.0 Wheel & Axle details:

Items	PP Side				Non PP Side			
Bogie No.	146100				146101			
Frame No.	FIAT-2650				FIAT-2598			
Bolster No.	3618-GT				2417-VT			
Axle No.	RWF-110061		RWF-109328		E-8352		RWF-109549	
Wheel Diameter	918.00	918.00	918.00	918.00	918.00	918.00	918.00	918.00
Wheel Disc No.	065-50854	152-50846	015-50746	199-50857	122-50854	292-51915	190-50854	341-50848
R.B. Nos.	06521	06562	00578	00556	06598	06851	05516	06685
R. B. Make	TIM		TIM		TIM		TIM	
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-12-1164	DN-13-02-1817	DN-11-12-1114	DN-13-02-1814	DN-11-12-1265	DN-13-02-1878	DN-11-12-1093	DN-13-02-1896
Ht. Attest Load	509	464	508	462	506	463	513	465
Align. deviation	7	19	5	21	9	14	8	16

6.2 Component traceability:

SNO	ITEM	PP Side Bogie	NPP side Bogie	Make
1	Primary Outer Spring batch no.	L&S-02-13	L&S-02-13	L&S
2	Primary inner Spring batch no	L&S-02-13	L&S-02-13	L&S
3	Primary Damper			SACHS
4	Secondary damper			GEREP
5	Lateral Damper			GEREP
6	Brake cylinder & Caliper	N-13103/600,N-13124/600, N-13102/600,N-13125/600	N-13134/600,N-13131/600, N-13137/600,N-13134/600	FTI
7	Brake Disc			FTI
8	Ball joint Control arm			SGA
9	Lateral Bump stop			GMT
10	Traction center make			SARITA
11	Traction lever make			SARITA
12	Ball joint traction lever			SGA
13	Ball joint Tracton 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

LWACCN-4008



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	3153	DISPATCH DATE			9.6.2014	
2.	Railway	NR	Type	LWACCN	Coach No.	143113	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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 <sup>2</sup>	6 -10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
7.2	Insensitivity		Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
7.3	Sensitivity		Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
8.1	PAINT		PU PAINT	VIBGYOR	91/93		
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			RAIL FAB			
iii.	SEATS/ BERTHS			OVPL			
iv.	BODY SIDE DOOR			JBM			
v.	VESTIBULE SLIDING DOOR			JBM			
vi.	COMPTT.DOOR			JR			
vii.	WATER TANKS			AMIT & SHIVALIK			
viii.	UIC VESTIBULE			KRP			
ix	FLOOR BOARD			TAYAL			
10.							
10.1	Modification / Trail (if any):			NIL			
10.2	Deviations if any:			NIL			



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 2 of 3  
Date: 18-02--2014

Shell No.:- 3153

RLY	NR	Type	LWACCN	Coach No.	143113
-----	----	------	--------	-----------	--------

6.0 Wheel & Axle details:

Items	PP Side				Non PP Side			
Bogie No.	146123				146124			
Frame No.	FIAT-2597				FIAT-2932			
Bolster No.	3620GT				3622GT			
Axle No.	S-6539		RWF-109535		RWF-109125		RWF-109610	
Wheel Diameter	918.00	918.00	918.00	918.00	916.50	916...	918.00	918.00
Wheel Disc No.	164-51908	286-50798	059-50792-	273-51916	200-50842	022-51777	297-50848	061-50848
R.B. Nos.	03708	03525	03709	03581	03579	03560	00562	06817
R. B. Make	TIM		TIM		TIM		TIM	
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.	DN13-1-1650	GF13-4-4867	DN-4-13-1324	GF13-4-04765	GF13-4-0628	GF13-4-4239	G13-4-070	GF13-4-439
Ht. Attest Load	414	466	505	467	512	467	512	466
Align. deviation	9	4	13	7	18	7	17	5

6.2 Component traceability:

SNO	ITEM	PP Side Bogie	NPP side Bogie	Make
1	Primary Outer Spring batch no.	L&S-03-13	L&S-03-13	L&S
2	Primary inner Spring batch no	GF-05-12	GF-05-12	GF
3	Primary Damper			GEREP
4	Secondary damper			GEREP
5	Lateral Damper			GEREP
6	Brake cylinder & Caliper	N13197/600,N13199/600 N13189/600,N13198/600	N13148/600,N13193/600 N13185/600,N13192/600	FTI
7	Brake Disc			FTI
8	Ball joint Control arm			SGA
9	Lateral Bump stop			GMT
10	Traction center make			EMSON
11	Traction lever make			SARITA
12	Ball joint traction lever			SGA
13	Ball joint Traction centre			SGA
14	Secondary rubber pad			TESPAK
15	Rubber spring			GMT
16	Anti roll bar make			SARITA
17	Roll link make			SARITA
18	Fork make			EMSON

LWACCN-3153





रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	3117	DISPATCH DATE			13.6.2014	
2.	Railway	NR	Type	LWACCN	Coach No.	143108	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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 <sup>2</sup>		6 -10 sec	6 Sec		
		Max Pressure in BC		3.80 ± 0.15 Kg/cm <sup>2</sup>	3.80		
		All Brake are applied		OK	OK		
7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK		
7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK		
8.	PAINTING DEATAILS:	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE			
8.1	PAINT	PU PAINT	VIBGYOR	88.6/89			
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	RAIL FAB					
iii.	SEATS/ BERTHS	SAVITRI					
iv.	BODY SIDE DOOR	JBM					
v.	VESTIBULE SLIDING DOOR	JBM					
vi.	SALOON DOOR/COMPTT.DOOR	SUKATA					
vii.	WATER TANKS	AMIT & SHIVALIK					
viii.	UIC VESTIBULE	KRP					
ix	FLOOR BOARD	TAYAL					
x	PVC FLOORING	RESPONSIVE					
10.							
10.1	Modification / Trail (if any):	FITTED WITH BIO DIGESTER OF M/s RAIL FAB					
10.2	Deviations if any:	NIL					



# रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Shell No.:- 3117

Date: 10-03--2014

RLY	NR	Type	LWACCN	Coach No.	143108/C
-----	----	------	--------	-----------	----------

## 6.0 Wheel & Axle details:

Items	PP Side				Non PP Side			
Bogie No.	146176				146175			
Frame No.	SCI/FM/013				SCI/FM/04			
Bolster No.	3673-VT				3669-VT			
Axle No.	S-6515		RWF-99467		S-6388		RWF-109827	
Wheel Diameter	915.00	915.00	916.00	916.00	915.00	915.00	915.00	915.00
Wheel Disc No.	027-51777	128-51782	051-51782	204-50854	132-50843	150-51781	134-51777	243-51777
R.B. Nos.	04612	04869	04900	04837	03639	03559	04695	04659
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.	G-13-4-0675	G-13-4-4722	G-13-4-0582	G-13-4-4714	G-13-4-744	G-13-4-4783	G-13-4-0768	G-13-4-4764
Ht. Attest Load	510	467	511	467	515	466	512	466
Align. deviation	20	8	20	9	19	10	20	13

## 6.2 Component traceability:

SNO	ITEM	PP Side Bogie	NPP side Bogie	Make
1	Primary Outer Spring batch no.	G13-5	G13-5	GF
2	Primary inner Spring batch no	G12-5	G12-5	GF
3	Primary Damper			SV
4	Secondary damper			SACHS
5	Lateral Damper			GEREP
6	Brake cylinder & Caliper	A-14123/600,A-14192/600, A-14182/600,A-14193/600	A-14168/600,A-14146/600, A-14164/600,A-14147/600	FTI
7	Brake Disc			KBI
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			GMT
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

LWACCN-3117



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4003	DISPATCH DATE			15.9.2014	
2.	Railway	NR	Type	LWACCN	Coach No.	143111	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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 <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.80 ± 0.15 Kg/cm <sup>2</sup>	3.80		
			All Brake are applied	OK	OK		
7.2	Insensitivity		Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
7.3	Sensitivity		Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
8.1	PAINT		PU PAINT	VIBGYOR	86/87		
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			OVPL			
iv.	BODY SIDE DOOR			JBM			
v.	VESTIBULE SLIDING DOOR			JBM			
vi.	SALOON DOOR			NA			
vii.	WATER TANKS			AMIT & SHIVALIK			
viii.	UIC VESTIBULE			KRP			
ix.	FLOOR BOARD			TAYAL			
10.							
10.1	Modification / Trail (if any):			FITTED WITH BIO DIGESTER OF M/s RAIL FAB			
10.2	Deviations if any:			NIL			



**रेल डिब्बा कारखाना, कपूरथला**  
Rail Coach Factory , Kapurthala

<b>12.</b>	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			4003		NR		LACCN		143111		10-5-14	
<b>12.1</b>	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	146396					146397				
	ii.	<b>Frame No.</b>	FIAT-3130					FIAT-3115				
	iii.	<b>Bolster No.</b>	154 -HEI					050-HEI				
	iv.	<b>Axle No.</b>	W-4565		W-4605		W-4607		RWF-109811			
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	<b>Wheel Disc No.</b>	244-63309	082-63305	033-51916	013-51777	165-63302	082-63307	310-63307	167-62314		
	vii.	<b>R.B. Nos.</b>	11775	07130	35954	08007	07136	12082	40529			
	viii.	<b>R.B. Make</b>	SKF		SKF		SKF		SKF			
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
<b>12.2</b>	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	<b>Make &amp; nos.</b>	G-13-4-804	G-13-5-4784	G-13-4-740	G-13-5-5106	G-13-4-807	G-13-5-4707	G-13-4-808	G-13-5-5095			
ii.	<b>Ht. attest load</b>	514	465	512	466	514	466	514	464			
iii.	<b>Align .deviation</b>	19	20	19	19	20	19	20				
<b>12.3</b>	<b>Items traceability:</b>											
	<b>S no.</b>	<b>Item</b>			<b>PP Side Bogie</b>		<b>NPP side Bogie</b>		<b>Make</b>			
	i.	Primary Outer Spring			L&S-03-13		L&S-03-13		L&S			
	ii.	Primary inner Spring			G-12-5		G-12-5		GF			
	iii.	Primary Damper							GEREP			
	iv.	Secondary damper							GEREP			
	v.	Lateral Damper							SACHS			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							ESCORT			
	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							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.	<b>Modification / Trial (if any):</b>			ESCORT BRAKE CALLIPER USED							
	ii.	<b>Deviations (if any):</b>			NIL							