



**ROLLING STOCK CERTIFICATE**

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5002	DISPATCH DATE				<b>22.05.2015</b>
2.	Railway	CR	Type	<b>LWACCN</b>	Coach No.	<b>15139</b>	
3.	Booked to	<b>SSE/C&amp;W/CSTM</b>					
4.	Tare Weight of Coach	<b>45.6 T</b>					
5.	Carrying Capacity	Seating	72	<b>Sleeping</b>	72	Luggage	<b>NIL</b>
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 )	<b>FAIVELEY</b>	<b>Fiba Device</b>	<b>NIL</b>			
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		<b>PU PAINT</b>	<b>GS</b>	<b>85/88</b>		
8.2	APPLICATION OF PCN-123		<b>SATISFACTORY</b>				
8.3	INSUALTION		<b>SATISFACTORY</b>				
9.	Traceability of Furnishing Items:			Make			
i.	BRAKE EQUIPMENT			<b>FAIVELEY</b>			
ii.	CDTS/ BIO TOILET			<b>AIR FLOW</b>			
iii.	SEATS/ BERTHS			<b>AAR KAY FOAMS</b>			
iv.	BODY SIDE DOOR			<b>JBM</b>			
v.	VESTIBULE SLIDING DOOR			<b>KALSI</b>			
vi.	SALOON DOOR			<b>NA</b>			
vii.	WATER TANKS			<b>KUTEER &amp; SHIVALIK</b>			
viii.	UIC VESTIBULE			<b>CEMCON</b>			
ix	<b>FLOOR BOARD</b>			<b>TAYAL</b>			
X	<b>PVC</b>			<b>RESPONSIVE</b>			
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

11.	<b>Bogie Details:</b>		<b>Shell No.</b>	<b>Railway</b>	<b>Type</b>	<b>Coach No.</b>	<b>Dispatch Date</b>			
			5002	CR	LWACCN	15139	02-05-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>				<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156345				156346			
	ii.	<b>Frame No.</b>	ECBT-937				ECBT-942			
	iii.	<b>Bolster No.</b>	4698-VT				4755			
	iv.	<b>Axle No.</b>	Z-3686		A-4634		12345		129054/986	
	v.	<b>Wheel Dia.</b>	917.00	917.00	912.50	912.50	915.00	915.00	915.00	915.00
	vi.	<b>Wheel Disc No.</b>	153-11607	150-11610	186-63302	288-63307	317-10533	310-10533	043-10559	213-10570
	vii.	<b>R.B. Nos.</b>	41522	25884	25899	25877	36829	24304	36834	36953
	viii.	<b>R.B. Make</b>	SKF		SKF		SKF		SKF	
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	
i.	<b>Make &amp; nos.</b>	CMFSK -15-03- 15	BPS- 2013- 040	CMFSK -15-03- 19	BPS- 2013-203	CMFSK- 03-15-47	BPS- 2013-210	CMFS K-03- 15	BPS- 2013- 092	
ii.	<b>Ht. attest load</b>	513	466	514	468	511	468	513	468	
iii.	<b>Align .deviation</b>	8	31	6	30	5	15	5	18	
11.3	<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-13-2		L&S-13-2		L&S	
	ii.	Primary inner Spring			GBS-14-08		GBD-14-11		GBD	
	iii.	Primary Damper			211,75,68,54		218,22,75,1076		GEREP	
	iv.	Secondary damper			736,937		743,841		GEREP	
	v.	Lateral Damper			2794		2940		KONI	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			L14014/600,M14002/600 L14018/600,M14023/600		N14069/600,A15053/600 L14026/600,L14026/600		FTI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							GMT	
	xi.	Traction center make							EMSON,SAR ITA	
	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							EMSON	
	xviii.	Ball joint roll link							SARITA	
	xix.	Fork make							EMSON	
11.4	i.	<b>Modification / Trial (if any):</b>			NIL					
	ii.	<b>Deviations (if any):</b>			LESS WHEEL DIA.					

**LWACCN-5002**



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4045	DISPATCH DATE			25.05.2015	
2.	Railway	CR	Type	LWACCN	Coach No.	15138	
3.	Booked to	SSE/C&W/CSTM					
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	GS	85/85		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT	KBI				
	ii.	CDTS/ BIO TOILET	AIR FLOW				
	iii.	SEATS/ BERTHS	AAR KAY FOAMS				
	iv.	BODY SIDE DOOR	SUKATA				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	SALOON DOOR	NA				
	vii.	WATER TANKS	SHIVALIK				
	viii.	UIC VESTIBULE	ELASTOMER, FRIKMART				
	ix	FLOOR BOARD	TAYAL				
	X	PVC	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

11.	12.	<b>Bogie Details:</b>	<b>Shell No.</b>	<b>Railway</b>	<b>Type</b>	<b>Coach No.</b>	<b>Dispatch Date</b>				
			4045	CR	LACCN	15138/C	09-05-2015				
11.1	12.1	<b>Wheel &amp; Axle Details:</b>	<b>PP Side</b>				<b>NPP Side</b>				
		i. <b>Bogie No.</b>	156343				156344				
		ii. <b>Frame No.</b>	ECBT-939				FIAT-3852				
		iii. <b>Bolster No.</b>	4729-GT				4751-P				
		iv. <b>Axle No.</b>	C-4594		125706/139		C-4612		A-2959		
		v. <b>Wheel Dia.</b>	915.00	915.00	915.00	915.00	915.00	915.00	915.00	915.00	
		vi. <b>Wheel Disc No.</b>	331-63309	334-63307	002-63307	278-63309	047-63305	205-63302	358-10579	101-63301	
		vii. <b>R.B. Nos.</b>	03905	04475	03731	03633	03771	04473	04423	03577	
		viii. <b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN		
		ix. <b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	12.2	<b>Secondary suspension load deflection Values:</b>									
		<b>Description</b>	<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>
					Outer	Inner	Outer	Inner	Outer	Inner	Outer
i.	i.	<b>Make &amp; nos.</b>	CMFSK-15-3-37	BPS-2013-053	CMFSK-15-3-44	BPS-2013-044	CMFSK-15-3-21	BPS-2013-198	CMFSK-15-3-9	BPS-2013-134	
ii.	ii.	<b>Ht. attest load</b>	511	465	511	467	513	465	514	467	
iii.	iii.	<b>Align .deviation</b>	6	22	7	23	5	26	6	31	
11.3	12.3	<b>Items traceability:</b>									
		<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>		<b>NPP side Bogie</b>		<b>Make</b>	
		i.	Primary Outer Spring			YR-10-10		YR-10-10		YR	
		ii.	Primary inner Spring			YR-10-11		YR-10-11		YR	
		iii.	Primary Damper			997,631,951,976		2224,996,981,680		GEREP	
		iv.	Secondary damper			1147,842		825,0601		GEREP	
		v.	Lateral Damper			2886		2835		KONI	
		vi.	Yaw Damper							NIL	
		vii.	Brake cylinder & Caliper			423/691,477/691, 400/691,494/691		409/691,NIL/691, NIL/691,486/691		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							SARITA,EM SON	
		xviii.	Ball joint roll link							SARITA	
		xix.	Fork make							EMSON	
11.4	12.4	i.	<b>Modification / Trial (if any):</b>				NIL				
		ii.	<b>Deviations (if any):</b>				NIL				

LWACCN-4045



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5001	DISPATCH DATE			27.05.2015	
2.	Railway	CR	Type	LWACCN	Coach No.	15140	
3.	Booked to	SSE/C&W/CSTM					
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		GS	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		AIR FLOW				
iii.	SEATS/ BERTHS		AAR KAY FOAMS				
iv.	BODY SIDE DOOR		JBM				
v.	VESTIBULE SLIDING DOOR		KALSI				
vi.	SALOON DOOR		NA				
vii.	WATER TANKS		SHIVALIK, AMIT				
viii.	UIC VESTIBULE		ELASTOMER				
ix	FLOOR BOARD		TAYAL				
X	PVC		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

Page 2 of 3

11.	12.	<b>Bogie Details:</b>	<b>Shell No.</b>	<b>Railway</b>	<b>Type</b>	<b>Coach No.</b>	<b>Dispatch Date</b>				
			5001	CR	LWACCN	15140/C	18-05-2015				
11.1	12.1	<b>Wheel &amp; Axle Details:</b>	<b>PP Side</b>				<b>NPP Side</b>				
		i. <b>Bogie No.</b>	156369				156370				
		ii. <b>Frame No.</b>	FIAT-3974				FIAT-3948				
		iii. <b>Bolster No.</b>	4737-P				4771-P				
		iv. <b>Axle No.</b>	C-4201		C-4355		126033/475		126386/474		
		v. <b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
		vi. <b>Wheel Disc No.</b>	63309/270	63301/274	63307-41	63302-344	63302-350	63307-276	004-63307	164-63307	
		vii. <b>R.B. Nos.</b>	04138	03572	03876	03819	04534	04067	04317	04329	
		viii. <b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN		
		ix. <b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	12.2	<b>Secondary suspension load deflection Values:</b>									
		<b>Description</b>	<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>
					Outer	Inner	Outer	Inner	Outer	Inner	Outer
i.	i.	<b>Make &amp; nos.</b>	GBD-15-03-35	CMFJ-14-05-35	GBD-15-03-3	CMFJ-14-05-40	GBD-15-03-14	CMFJ-14-05-30	GBD-15-03-9	CMFJ-14-05-56	
ii.	ii.	<b>Ht. at test load</b>	515	469	515	468	510	468	512	469	
iii.	iii.	<b>Align .deviation</b>	6	18	7	20	6	10	8	10	
11.3	12.3	<b>Items traceability:</b>									
		<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>		<b>NPP side Bogie</b>		<b>Make</b>	
		i.	Primary Outer Spring			YR-10-10		YR-10-10		YR	
		ii.	Primary inner Spring			YR-10-11		YR-10-11		YR	
		iii.	Primary Damper			25012,24670,25017,25018		24686,24545,24809,24971		KONI	
		iv.	Secondary damper			1145,1203		1244,88		GEREP	
		v.	Lateral Damper			2783		2877		KONI	
		vi.	Yaw Damper							NIL	
		vii.	Brake cylinder & Caliper			D15016/600,C15008/600, D15018/600,C15020/600		A15101/600,A15106/600, A15053/600,A15089/600		FTI	
		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							GMT	
		xv.	Secondary rubber pad							TESPAK	
		xvi.	Rubber spring							GMT	
		xvii.	Anti roll bar make							EMSON	
		xviii.	Ball joint roll link							SARITA	
		xix.	Fork make							SARITA	
11.4	12.4	i.	<b>Modification / Trial (if any):</b>				NIL				
		ii.	<b>Deviations (if any):</b>				NIL				

LWACCN-5001



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4125	DISPATCH DATE			27.05.2015	
2.	Railway	CR	Type	LWACCN	Coach No.	15141	
3.	Booked to	SSE/C&W/CSTM					
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	88/89	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
i.	BRAKE EQUIPMENT		KBI				
ii.	CDTS/ BIO TOILET		VIBHU				
iii.	SEATS/ BERTHS		AAR KAY FOAMS				
iv.	BODY SIDE DOOR		SUKATA				
v.	VESTIBULE SLIDING DOOR		KALSI				
vi.	SALOON DOOR		NA				
vii.	WATER TANKS		SHIVALIK				
viii.	UIC VESTIBULE		KRP				
ix	FLOOR BOARD		NARBADA				
X	PVC		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

Page 2 of 3

11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			4125		CR		LWACCN		15141/C		13-05-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	156363					156364				
	ii.	<b>Frame No.</b>	ECBT-957					FIAT-3835				
	iii.	<b>Bolster No.</b>	4530-GT					4776-P				
	iv.	<b>Axle No.</b>	114581/370		129037/986			C-4526		C-4510		
	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>	350-10582	157-10568	102-63301	176-10579	084-10570	332-10559	023-63301	004-10570		
	vii.	<b>R.B. Nos.</b>	04064	03878	04642	03795	03806	04353	04444	04459		
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	AFJ-14-09-20	G-13-05-4860	AFJ-14-09-8	G-13-05-4757	AFJ-14-09-11	G-13-05-4864	AFJ-14-09-21	G-13-05-5146			
ii.	<b>Ht. at test load</b>	514	466	514	466	512	467	512	465			
iii.	<b>Align .deviation</b>	7	10	9	11	5	10	7	10			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			YR-10-10			YR-10-10			YR	
	ii.	Primary inner Spring			YR-11-10			YR-11-10			YR	
	iii.	Primary Damper			24957,24925,24966,24666			22557,23464,24943,24435			KONI	
	iv.	Secondary damper			79,912			63,855			GEREP	
	v.	Lateral Damper			2842			2975			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			411/691,464/691,407/691,471/691			410/691,462/691,403/691,490/691			KBI	
	viii.	Brake Disc									FTI	
	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,MGN	
	xiv.	Traction centre elastic									GMT,MGN	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

LWACCN-4125





रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5003	DISPATCH DATE				04.06.2015
2.	Railway	CR	Type	LWACCN	Coach No.		15143
3.	Booked to		SSE/C&W/CSTM				
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		VIBGYOR	88/88	
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		AAR KAY FOAMS				
iv.	BODY SIDE DOOR		JBM				
v.	VESTIBULE SLIDING DOOR		KALSI				
vi.	SALOON DOOR		NA				
vii.	WATER TANKS		SHIVALIK				
viii.	UIC VESTIBULE		FRIKMART				
ix	FLOOR BOARD		TAYAL				
X	PVC		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

Page 2 of 3

11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			5003		CR		LACCN		15143/C		27-05-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	156334					156355				
	ii.	<b>Frame No.</b>	ECBT-934					FIAT-3313				
	iii.	<b>Bolster No.</b>	4663-P					4734-P				
	iv.	<b>Axle No.</b>	C-4232		126271/474			C-3964		A-2878		
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	915.00	915.00	916.00	916.00		
	vi.	<b>Wheel Disc No.</b>	362-63305	041-61077	299-10568	002-63301	034-63301	105-10568	133-63301	352-63305		
	vii.	<b>R.B. Nos.</b>	04688	04297	04162	04280	04508	04262	04702	04226		
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN			TIMKEN		TIMKEN		
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	<b>Make &amp; nos.</b>	CMFSK-15-03-NIL	G-12-8-2932	CMFSK-15-03-49	G-12-8-2871	CIAFJ-14-09-23	G-12-8-282	CIAFJ-14-09-25	G-12-8-5404			
ii.	<b>Ht. at test load</b>	513	468	513	466	515	469	515	467			
iii.	<b>Align .deviation</b>	6	8	8	12	8	10	8	13			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			YR-10-10			YR-10-10			YR	
	ii.	Primary inner Spring			YR-10-11			YR-10-11			YR	
	iii.	Primary Damper			1644,1075,1666,1876			1658,1620,1893,1896			GEREP	
	iv.	Secondary damper			125,350			1196,329			GEREP	
	v.	Lateral Damper			3032			2866			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			E15023/600,E15011/600, E15022/600,E15030/600			E15020/600,D15013/600, E15040/600,D15032/600			FTI	
	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									GMT	
	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	
11.4	i.	<b>Modification / Trial (if any):</b>					NIL					
	ii.	<b>Deviations (if any):</b>					NIL					

LWACCN-5003



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4116	DISPATCH DATE				04.06.2015
2.	Railway	CR	Type	LWACCN	Coach No.	15142	
3.	Booked to	SSE/C&W/CSTM					
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		GS`	85/87	
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		RAIL FAB				
iii.	SEATS/ BERTHS		AAR KAY FOAMS				
iv.	BODY SIDE DOOR		JBM				
v.	VESTIBULE SLIDING DOOR		KALSI				
vi.	SALOON DOOR		NA				
vii.	WATER TANKS		SHIVALIK, AMIT				
viii.	UIC VESTIBULE		ELASTOMER				
ix	FLOOR BOARD		TAYAL				
X	PVC		RESPONSIVE				
10.							
10.1	Modification / Trail (if any):				FITTED WITH BIO DIGESTER OF M/s RAIL FAB		
10.2	Deviations if any:				NIL		



11.	<b>Bogie Details:</b>		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4116		CR		LACCN		15412/C		26-05-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side						NPP Side			
	i.	Bogie No.	156401						156402			
	ii.	Frame No.	FIAT-4015						FIAT-967			
	iii.	Bolster No.	4703-VT						4738-P			
	iv.	Axle No.	126537/481			C-4636			126925/476		126990/476	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	068-61077	091-63309	216-63302	096-63301	240-63301	121-63309	229-10579	207-63301		
	vii.	R.B. Nos.	03786	04693	04487	04189	04535	04725	04374	04723		
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	DN-13-3-1381	G-12-4-719	DN-13-3-1367	G-13-5-4983	CHGBD-11-12-80	G-11-12-408	CHGBD-11-12-21	G-13-5-4296			
ii.	Ht. at test load	509	466	509	465	515	465	515	465			
iii.	Align .deviation	11	17	9	15	12	12	9	8			
11.3	<b>Items traceability:</b>											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			YR-10-10			YR-10-10			YR	
	ii.	Primary inner Spring			YR-10-11			YR-10-11			YR	
	iii.	Primary Damper			1876,1850,1839,1898			1852,1625,1858,2538			GEREP	
	iv.	Secondary damper			1192,151			648,681			GEREP	
	v.	Lateral Damper			3047			3017			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			A15063/600,M19004/600, A15001/600,N14002/600			M14044/600,L14005/600, A15006/600,M14020/600			FTI	
	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									GMT	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

LWACCN-4116