



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5042	DISPATCH DATE				30.06.2016
2.	Railway	ER	Type	LWACCW	Coach No.	16054	
3.	Booked to		SSE/C&W/HWH				
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	1100	1095		
	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	87/88		
	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	M.K.PRECISION				
	iii.	SEATS/ BERTHS	AMIR CHAND				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	HP				
	vi.	COMPTT.DOOR	RT				
	vii.	WATER TANKS	SHIVALIK,KUTEER,MANOJ				
	viii.	UIC VESTIBULE	ESCORT				
	ix	FLOOR BOARD	TAYAL				
	X	PVC	RESPONSIVE				
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

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5042		ER		LWACCW		16054		15-03-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166230					166241				
	ii.	Frame No.	FIAT-4343					FIAT-4698				
	iii.	Bolster No.	5583-P					5408-VT				
	iv.	Axle No.	K-6596		K-2996		K-5832		K-4002			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.00	916.00	916.00		
	vi.	Wheel Disc No.	6204-00212	6204-00188	7300-00081	7300-00012	7274-00036	7304-00184	7283-00078	7274-00094		
	vii.	R.B. Nos.	02193	04617	04921	04949	05204	02360	01707	02103		
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	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.	DN-12-8-1752	RSK-15-9-116	DN-12-8-2673	RSK-15-9-140	DN-12-11-2581	RSK-15-9-227	DN-12-11-2746	RSK-15-9-309			
ii.	Ht. at test load	507	467	508	466	509	464	510	467			
iii.	Align .deviation	14	40	15	41	20	30	23	32			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-14-5			RSK-14-5			RSK	
	ii.	Primary inner Spring			RSK-14-5			RSK-14-5			RSK	
	iii.	Primary Damper			871,898,708,502			1936,1929,862,1940			GEREP	
	iv.	Secondary damper			0085,0090			0029,0125			KNORR	
	v.	Lateral Damper			3390			3600			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			2052/691,2126/691 2055/691,2125/691			2018/691,2088/691 2019/691,2085/691			KBI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	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									SARITA	
11.4	i.	Modification / Trial (if any):										NIL
	ii.	Deviations (if any):										NIL

LWACCN 5042



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5044	DISPATCH DATE				30.06.2016
2.	Railway	ER	Type	LWACCW	Coach No.	16057	
3.	Booked to	SSE/C&W/HWH					
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)	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	87/85		
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					RAIL FAB	
iii.	SEATS/ BERTHS					AMIR CHAND	
iv.	BODY SIDE DOOR					JBM	
v.	VESTIBULE SLIDING DOOR					KALSI	
vi.	COMPTT.DOOR					RT	
vii.	WATER TANKS					SHIVALIK,KUTEER	
viii.	UIC VESTIBULE					ESCORT	
ix	FLOOR BOARD					TAYAL	
X	PVC					RESPONSIVE	
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

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5044	ER	LWACCW	16057	12-02-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166136				166135			
	ii.	Frame No.	FIAT-4649				FIAT-4523			
	iii.	Bolster No.	5497-P				5214-P			
	iv.	Axle No.	RWF-71668	127790/987		Z-3555		125602/480		
	v.	Wheel Dia.	917.00	916.50	916.00	915.50	916.00	916.00	917.00	917.00
	vi.	Wheel Disc No.	06234-00157	07301-00095	6210-00126	07292-00120	7273-00045	6210-00062	7290-00048	7292-00020
	vii.	R.B. Nos.	33323	06057	38446	06631	05018	07105	02223	01889
	viii.	R.B. Make	SKF		SKF		TIM		TIM	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	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.	RSK-14-8-190	RSK-15-10-316	RSK-14-8-167	RSK-15-10-2018	RSK-14-8-171	RSK-15-10-201	RSK-14-8-168	RSK-15-10-319	
ii.	Ht. at test load	511	467	511	468	512	466	511	468	
iii.	Align .deviation	3	37	5	38	15	38	17	38	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie			NPP side Bogie		Make		
	i.	Primary Outer Spring	RSK-14-5			RSK-14-5		RSK		
	ii.	Primary inner Spring	RSK-11-12			RSK-11-12		RSK		
	iii.	Primary Damper	1871,1893,1891,1873			1846,1819,1902,1889		GEREP		
	iv.	Secondary damper	720,622			591,405		GEREP		
	v.	Lateral Damper	61			132		GEREP		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper	2086/691,2149/691 2033/691,2086/691			2087/691,2094/691 2082/691,2095/691		KBI		
	viii.	Brake Disc						KBI		
	ix.	Ball joint Control arm						MGN		
	x.	Lateral Bump stop						MGN		
	xi.	Traction center make						EMSON		
	xii.	Traction lever make						SARITA		
	xiii.	Ball joint traction lever						SGA		
	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						SARITA		
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

LWACCW 5044



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5038	DISPATCH DATE				30.06.2016
2.	Railway	ER	Type	LWACCW	Coach No.	16053	
3.	Booked to		SSE/C&W/HWH				
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)	ESCORT	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	87/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
	i.	BRAKE EQUIPMENT			FAVELLY		
	ii.	BIO TOILET			MK PRECISION		
	iii.	SEATS/ BERTHS			AMIR CHAND		
	iv.	BODY SIDE DOOR			JBM		
	v.	VESTIBULE SLIDING DOOR			HP		
	vi.	COMPTT.DOOR			RT		
	vii.	WATER TANKS			SHIVALIK,KUTEER,MANOJ		
	viii.	UIC VESTIBULE			ESCORT		
	ix	FLOOR BOARD			TAYAL		
	X	PVC			RESPONSIVE		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5038	ER	LWACCW	16053	28-04-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166353				166354			
	ii.	Frame No.	FIAT-4833				FIAT-4839			
	iii.	Bolster No.	5715-VT				5728-VT			
	iv.	Axle No.	126028/475	128399/983	126605/480	C-4410				
	v.	Wheel Dia.	917.00	917.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	7305-00102	7274-00097	7204-00056	7279-00017	7304-00061	7279-00061	7291-00101	7276-00186
	vii.	R.B. Nos.	05043	05338	04290	05542	04661	05207	04508	04802
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	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.	DN-12-5-1532	RSK-13-3-021	DN-12-5-1620	RSK-13-3-081	DN-12-5-1618	RSK-13-3-214	DN-12-5-1612	RSK-13-3-081	
ii.	Ht. at test load	502	467	502	466	507	468	509	466	
iii.	Align .deviation	19	19	19	19	19	15	18	11	
11.3	Items traceability:									
	Sno.	Item		PP Side Bogie		NPP side Bogie		Make		
	i.	Primary Outer Spring		RSK-14-5		RSK-14-5		RSK		
	ii.	Primary inner Spring		RSK-14-5		RSK-14-5		RSK		
	iii.	Primary Damper		191,186,331,314		300,196,186,187		GEREP		
	iv.	Secondary damper		782,776		151,782		GEREP		
	v.	Lateral Damper		115		140		KONI		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper						----		
	viii.	Brake Disc						FTI		
	ix.	Ball joint Control arm						MGN		
	x.	Lateral Bump stop						MGN		
	xi.	Traction center make						SARITA		
	xii.	Traction lever make						SARITA		
	xiii.	Ball joint traction lever						MGN		
	xiv.	Traction centre elastic						SGA		
	xv.	Secondary rubber pad						WINLANE		
	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				

LWACCW 5038