



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5009	DISPATCH DATE				23.4.2016
2.	Railway	ECR	Type	LFCWAC	Coach No.	16026	
3.	Booked to	SSE/C&W/RNCC					
4.	Tare Weight of Coach	43.6 T					
5.	Carrying Capacity	Seating	38	Sleeping	38	Luggage	NIL
6.	Shell Details: WA900001						
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	1104	
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	90/88	
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					RAIL FAB	
iii.	SEATS/ BERTHS					AMIR CHAND ,AAR KAY FOAMS	
iv.	BODY SIDE DOOR,COMPPT DOOR					JBM,RAIL TECH	
v.	VESTIBULE SLIDING DOOR					KALSI	
vi.	SALOON DOOR					KALSI	
vii.	WATER TANKS					SHIVALIK	
viii.	UIC VESTIBULE					ESCORT	
ix	FLOOR BOARD					TAYAL	
x	PVC FLOORING					RESPONSIVE	
10.							
i	Modification / Trail (if any):		NIL				
ii	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		
			5009		ECR		LFCWAC		16026/C		19-03-2016		
11.1	Wheel & Axle Details:		PP Side						NPP Side				
	i.	Bogie No.	166264						166265				
	ii.	Frame No.	FIAT-4663						FIAT-3910				
	iii.	Bolster No.	166-P/ASR						5590-VT				
	iv.	Axle No.	K-6102			N-0581			K-3972		K-3053		
	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.	7291-00092	7305-00107	07305-00069	7291-00192	7291-00130	7300-00156	7291-00054	7305-00085			
	vii.	R.B. Nos.	05571	01163	01567	04849	04665	01749	05741	05655			
	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-12-8-1886	RSK-15-9-199	DN-12-8-1708	RSK-15-9-129	DN-12-8-2803	RSK-15-9-228	DN-12-8-1915	RSK-15-9-097				
ii.	Ht. at test load	509	463	508	464	510	464	511	464				
iii.	Align .deviation	13	34	13	31	20	38	18	34				
11.3	Items traceability:												
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make		
	i.	Primary Outer Spring			RSK-11-2			RSK-13-2			RSK		
	ii.	Primary inner Spring			RSK-11-11			RSK-11-11			RSK		
	iii.	Primary Damper			1018,1296,1302,1446			975,996,1034,999			GEREP		
	iv.	Secondary damper			963,1020			519,961			GEREP		
	v.	Lateral Damper			3663			3288			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									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					

LFCWAC -5009



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5012	DISPATCH DATE				23.4.2016
2.	Railway	ECR	Type	LFCWAC	Coach No.	16027	
3.	Booked to		SSE/C&W/RNCC				
4.	Tare Weight of Coach		43.6 T				
5.	Carrying Capacity	Seating	38	Sleeping	38	Luggage NIL	
6.	Shell Details: WA900001						
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		1090	1090	
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		VIBGYOR	86/88	
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				RAIL FAB		
iii.	SEATS/ BERTHS				AMIR CHAND(2T) ,AAR KAY FOAMS		
iv.	BODY SIDE DOOR,COMPPT DOOR				JBM,RAIL TECH		
v.	VESTIBULE SLIDING DOOR				KALSI		
vi.	SALOON DOOR				KALSI		
vii.	WATER TANKS				AMIT,SHIVALIK		
viii.	UIC VESTIBULE				ESCORT		
ix	FLOOR BOARD				TAYAL		
x	PVC FLOORING				RESPONSIVE		
10.							
i	Modification / Trail (if any):		NIL				
ii	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	
			5012		ECR		LFCWAC		16027/C		18-03-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166269						166270			
	ii.	Frame No.	FIAT-4680						FIAT-4664			
	iii.	Bolster No.	ASR-103						3753-VT			
	iv.	Axle No.	N-0398		129081/992		129299/982		N-0527			
	v.	Wheel Dia.	916.50	916.50	917.00	917.00	917.00	917.00	917.00	916.50		
	vi.	Wheel Disc No.	6204-00150	6204-00134	6229-00130	06230-00029	07301-00023	6226-00157	6204-00198	7299-00016		
	vii.	R.B. Nos.	01752	01701	01266	01968	02738	01824	01746	01489		
	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-12-8-2583	RSK-15-9-373	DN-12-8-2776	RSK-15-9-182	DN-12-8-2811	RSK-15-9-149	DN-12-8-2194	RSK-15-9-096			
ii.	Ht. at test load	506	467	505	468	505	468	507	467			
iii.	Align .deviation	15	39	19	40	14	29	17	32			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-13-2			RSK-13-2			RSK	
	ii.	Primary inner Spring			RSK-11-11			RSK-11-11			RSK	
	iii.	Primary Damper			2057,1915,2120,2079			2119,2055,2128,1984			GEREP	
	iv.	Secondary damper			1206,562			202,16			GEREP	
	v.	Lateral Damper			2709			2608			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper									-----	
	viii.	Brake Disc									KBI	
	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									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					

LFCWAC -5012