



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5032	DISPATCH DATE				13.01.2016
2.	Railway	NWR	Type	LWSCZAC	Coach No.	15154	
3.	Booked to	SSE/C&W/JP					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	Sleeping	NIL	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	1104	1102		
	v)	Buffer/CBC (Make)	ESCORTS	Fiba Device	NA		
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			
	iii.	CDTS		RAIL TECH			
	iv.	SEAT & BERTH		SUTLEJ			
	v.	BODY SIDE DOORS		JBM, SUKATA			
	vi.	SALOON COMPTT DOORS		KALSI			
	vii.	VESTIBULE SLIDING DOOR		CP			
	viii.	WATER TANKS		KUTEER, MANOJ			
	ix	UIC VESTIBULE		SUNCREAST			
	x	LUGGAGE RACK		HANSPAL			
	XI	FLOOR BOARD		NARBADA			
	XII	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	
			5032		NWR		LWSCZAC		15154		30-11-2015	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	156916					156917				
	ii.	Frame No.	FIAT-4470					FIAT-4372				
	iii.	Bolster No.	5300-VT					5242-P				
	iv.	Axle No.	128169/984		128007/988		127025/476		126840/468			
	v.	Wheel Dia.	916.00	916.00	915.50	915.00	916.00	916.00	917.00	917.00		
	vi.	Wheel Disc No.	7150-00122	06228-00092	7147-00200	7172-00196	06228-00180	06228-00157	6207-00070	6196-00048		
	vii.	R.B. Nos.	04870	01630	01614	01346	01620	02196	01396	01690		
	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-13-2-294	RSK-15-3-371	DN-13-2-2036	RSK-15-3-419	DN-12-5-1644	RSK-15-3-450	DN-12-5-1634	RSK-15-3-393			
ii.	Ht. at test load	503	464	505	463	511	470	510	466			
iii.	Align .deviation	22	27	22	28	21	45	23	47			
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			0223,0277,0211,0280			0297,0197,0320,0314			KNORR	
	iv.	Secondary damper			0154,0151			0097,0073			KNORR	
	v.	Lateral Damper			00082			00081			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1831/691,1895/691 1834/691,1894/691			1650/691,1687/691, 1651/691,1688/691			KBI	
	viii.	Brake Disc									KBI,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									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				

LWSCZAC-5032



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5025	DISPATCH DATE			07.01.2016	
2.	Railway	NWR	Type	LWSCZAC	Coach No.	15153	
3.	Booked to	SSE/C&W/All					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	Sleeping	NIL	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	1104	
v)	Buffer/CBC (Make)		ESCORTS		Fiba Device	NA	
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		VIB	86/87	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
i.	BRAKE EQUIPMENT			FAIVELEY			
iii.	CDTS			RAIL TECH			
iv.	SEAT & BERTH			SUTLEJ			
v.	BODY SIDE DOORS			JBM			
vi.	SALOON COMPTT DOORS			KALSI			
vii.	VESTIBULE SLIDING DOOR			KALSI			
viii.	WATER TANKS			KUTEER, MANOJ			
ix	UIC VESTIBULE			ESCORT			
x	LUGGAGE RACK			RAIL FAB			
XI	FLOOR BOARD			TAYAL			
XII	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			
			5025	NW	LWSCZAC	15153/C	28-11-2015			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156912				156913			
	ii.	Frame No.	FIAT-3212				FIAT-4286			
	iii.	Bolster No.	5302-VT				5262-P			
	iv.	Axle No.	126697/968	126283/474	126322/474	128774/990				
	v.	Wheel Dia.	917.50	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	06225-00096	6228-00061	6225-00134	6225-00037	06228-00058	6211-00133	06228-00059	6225-00116
	vii.	R.B. Nos.	02442	01227	02452	01475	026275	02519	02408	01137
	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-13-2-3306	RSK-15-3-458	DN-13-2-3277	RSK-15-3-448	DN-13-2-2948	RSK-15-3-225	DN-13-2-2466	RSK-15-3-244	
ii.	Ht. at test load	504	472	506	471	507	463	507	466	
iii.	Align .deviation	18	32	20	34	16	40	17	41	
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	0298,0312,0289,0294			0228,0287,0216,0376		KNORR		
	iv.	Secondary damper	0052,0141			0030,02215		KNORR		
	v.	Lateral Damper	0056			00090		KNORR		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper	L15106/600,L15094/600, L15111/600,L15102/600			L15159/600,L15115/600, L15154/600,L15125/600		FTI		
	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						MGN		
	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		
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

LWSCZAC-5025

