



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5019	DISPATCH DATE				05.12.2015
2.	Railway	NCR	Type	LWSCZAC	Coach No.	15178	
3.	Booked to	SSE/C&W/CNB					
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	1103		
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	ADVANCE	85/87			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT				KBI		
iii.	CDTS				AIR FLOW		
iv.	SEAT & BERTH				SUTLEJ		
v.	BODY SIDE DOORS				JBM		
vi.	SALOON COMPTT DOORS				KALSI		
vii.	VESTIBULE SLIDING DOOR				CONCEPT		
viii.	WATER TANKS				E C BLADES, SHIVALIK, KUTEER		
ix	UIC VESTIBULE				SUNCREAST		
x	LUGGAGE RACK				RAIL TECH		
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

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5019	NCR	LWBAC	15178	28-09-2015			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156700				156701			
	ii.	Frame No.	SCI/FM-239-				ECBT-976			
	iii.	Bolster No.	4973-VT				5129-GT			
	iv.	Axle No.	125753/473	106535/628	127947/988	128068/988				
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	6191-00132	6213-00118	6191-00168	6191-00042	06149-00172	6191-00116	6191-00098	6191-00018
	vii.	R.B. Nos.	29879	16703	16701	01208	21169	22060	01438	01180
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	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-13-2-3200	DN-13-2-1833	DN-13-5-3533	DN-13-2-1830	DN-12-6-1499	DN-12-6-1467	DN-13-5-3653	DN-12-6-1960	
ii.	Ht. at test load	502	463	504	465	508	460	508	463	
iii.	Align .deviation	17	12	20	19	22	4	24	4	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	L&S-13-3		L&S-13-3		L&S			
	ii.	Primary inner Spring	L&S-13-2		L&S-13-2		L&S			
	iii.	Primary Damper	25539,26223,26213,26161		26627,26603,26172,26222		KONI			
	iv.	Secondary damper	5788,5726		5899,5701		KONI			
	v.	Lateral Damper	10		32		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	1599/691,1656/691,1596/691,1660/691		1593/691,1643/691,1592/691,1644/691		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					SGA			
	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.	Modification / Trial (if any):			NIL					
	ii.	Deviations (if any):			NIL					

LWSCZAC-5019



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5020	DISPATCH DATE				07.12.2015
2.	Railway	NCR	Type	LWSCZAC	Coach No.	15177	
3.	Booked to	SSE/C&W/CNB					
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	VIBGYOR	86/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT			KBI		
	iii.	CDTS			AIR FLOW		
	iv.	SEAT & BERTH			SUTLEJ		
	v.	BODY SIDE DOORS			JBM		
	vi.	SALOON COMPTT DOORS			KALSI		
	vii.	VESTIBULE SLIDING DOOR			CONCEPT		
	viii.	WATER TANKS			E C BLADES, KUTEER		
	ix	UIC VESTIBULE			SUNCREAST		
	x	LUGGAGE RACK			RAIL TECH		
	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	
			5020		NCR		LWFCWAC		15177		26-09-2015	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	156706					156707				
	ii.	Frame No.	SCI-FM-254					SCI-FM-241				
	iii.	Bolster No.	5142-GT					5123-P				
	iv.	Axle No.	125815/477		126216/471			128657/989		129212/992		
	v.	Wheel Dia.	918.00	918.00	917.00	917.00	916.00	916.00	916.50	917.00		
	vi.	Wheel Disc No.	6197-00058	6196-00184	6198-00013	6212-00149	6213-00168	6191-00148	6213-00126	6191-00015		
	vii.	R.B. Nos.	16802	16876	35019	16880	16881	33056	34760	29654		
	viii.	R.B. Make	SKF		SKF			SKF		SKF		
	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-13-01-2962	DN-12-6-1377	DN-11-12-2534	DN-12-6-1511	DN-13-01-2924	DN-12-6-1363	DN-13-01-2910	DN-12-6-1343			
ii.	Ht. at test load	510	464	508	466	509	461	511	462			
iii.	Align .deviation	18	7	20	9	20	7	20	7			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			L&S-13-2		L&S-13-2		L&S			
	ii.	Primary inner Spring			CMFSK-12-12		CMFSK-12-12		CMFSK			
	iii.	Primary Damper			25864,25928,25867,25920		25877,25889,25884,25888		KONI			
	iv.	Secondary damper			6036,5624		6185,5640		KONI			
	v.	Lateral Damper			430		605		GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			1633/691,1710/691 1634/691,1708/691		1664/691,1729/691 1663/691,1728/691		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							SGA,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						

LWSCZAC-5020