



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5003	DISPATCH DATE			14.08.2015	
2.	Railway	NR	Type	LWFCZAC	Coach No.	153877	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	39.00 T					
5.	Carrying Capacity	Seating	56	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	1105		
	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			AIR FLOW		
	iv.	FLOOR,SEAT & BERTH,PVC			TAYAL,SATLEJ,PREMIER POLYFILM		
	v.	BODY SIDE DOORS			JBM		
	vi.	SALOON COMPTT DOORS			KALSI		
	vii.	VESTIBULE SLIDING DOOR			CONCEPT		
	viii.	WATER TANKS			SHIVALIK & E C BLADE		
	ix	UIC VESTIBULE			SUNCREAST		
	x	LUGGAGE RACK,LP PANNEL			HANSPAL,NA		
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5003		NR		LWSCZAC		153877		25-07-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156500						156501			
	ii.	Frame No.	FIAT-4051						FIAT-3981			
	iii.	Bolster No.	4861-VT						4871-P			
	iv.	Axle No.	129263/982		126457/481		126529/481		129024/986			
	v.	Wheel Dia.	916.00	916.00	918.00	918.00	916.00	916.00	916.00	916.00		
	vi.	Wheel Disc No.	6147-00125	06147-00077	6147-00128	06146-00035	335-63302	092-63309	262-10533	146-63302		
	vii.	R.B. Nos.	25111	25221	24407	26089	26695	24077	25880	24940		
	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-12-8-2187	G-12-11-3742	DN-12-8-2087	G-12-11-3792	DN-12-8-2219	G-12-11-3884	DN-12-8-2097	G-12-11-3793			
ii.	Ht. at test load	511	466	510	466	508	466	508	468			
iii.	Align .deviation	17	10	20	10	21	2	23	3			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			L&S-13-03			L&S-13-03			L&S	
	ii.	Primary inner Spring			L&S-13-02			L&S-13-02			L&S	
	iii.	Primary Damper			24568,23811,24879,24605			24640,24444,24852,24557			KONI	
	iv.	Secondary damper			5378,5142			4704,5061			KONI	
	v.	Lateral Damper			L-3067			L-3191			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1224/691,1312/691,1225/691,1323/691			1162/691,1182/691,1120/691,1180/691			KBI	
	viii.	Brake Disc									FTI,KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN,GMT	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									MGN	
	xiv.	Traction centre elastic									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):			TREAD CLEANING UNIT PROVIDED							
	ii.	Deviations (if any):			NIL							

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5001	DISPATCH DATE			14.08.2015
2.	Railway	NR	Type	LWFCZAC	Coach No.	153878
3.	Booked to	SSE/C&W/NDLS				
4.	Tare Weight of Coach	39.00 T				
5.	Carrying Capacity	Seating	56	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	1105	
	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.	FLOOR,SEAT & BERTH,PVC		TAYAL,SATLEJ,PREMIER POLYFILM		
	v.	BODY SIDE DOORS		MOHAN, SUKATA		
	vi.	SALOON COMPTT DOORS		CONCEPT		
	vii.	VESTIBULE SLIDING DOOR		KALSI		
	viii.	WATER TANKS		KUTEER, MANOJ		
	ix	UIC VESTIBULE		KRP		
	x	LUGGAGE RACK,LP PANNEL		RAIL TECH, NA		
10.						
	10.1	Modification / Trail (if any):			NIL	
	10.2	Deviations if any:			NIL	



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5001	NR	LWSCZAC	153878/C	25-07-2015			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156498				156499			
	ii.	Frame No.	FIAT-4087				FIAT-4097			
	iii.	Bolster No.	4888-VT				4904-VT			
	iv.	Axle No.	114943/369		129189/192		128930/986		128261/991	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	6146-00108	06146-00012	6147-00149	06148-00156	6146-00131	6147-00108	06146-00027	6146-00051
	vii.	R.B. Nos.	32139	25632	25649	31377	25671	24298	24969	25628
	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-13-03-3360	G-12-11-3756	DN-12-09-2037	G-12-11-3764	DN-12-09-2186	G-12-11-3754	DN-12-09-2147	G-12-11-3741	
ii.	Ht. at test load	510	464	511	466	507	467	508	465	
iii.	Align .deviation	17	16	16	12	22	13	22	11	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			G-12-10		G-12-10		GF	
	ii.	Primary inner Spring			G-12-5		G-12-5		GF	
	iii.	Primary Damper			24400,24357,24844,25074		24388,24661,24552,24373		KONI	
	iv.	Secondary damper			5446,5499		4968,5219		KONI	
	v.	Lateral Damper			3136		3068		KONI	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			1164/691,1181/691,163/691,1183/691		1222/691,1325/691,1223/691,1322/691		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							MGN	
	xiv.	Traction centre elastic							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							EMSON	
11.4	i.	Modification / Trial (if any):			TREAD CLEANING UNIT PROVIDED					
	ii.	Deviations (if any):			NIL					

LWFCZAC-5001