



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4030	DISPATCH DATE			18.11.2014
2.	Railway	NR	Type	LWSCZAC	Coach No.	143156
3.	Booked to		SSE/C&W/NDLS			
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		1103	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	89/89	
8.2	APPLICATION OF PCN-123		SATISFACTORY			
8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:			Make		
i.	BRAKE EQUIPMENT			FAIVELEY		
iii.	CDTS			AIR FLOW		
iv.	SEAT & BERTH			SUTLEJ		
v.	BODY SIDE DOORS			JBM		
vi.	SALOON COMPTT DOORS			AIR FLOW		
vii.	VESTIBULE SLIDING DOOR			KALSI		
viii.	WATER TANKS			SHIVALIK, KUTEER		
ix	UIC VESTIBULE			CEMCON		
x	LUGGAGE RACK			SHIVALIK		
XI	FLOOR BOARD			NARBADA		
XII	PVC			RESPONSIVE		
10.						
10.1	Modification / Trail (if any):				NIL	
10.2	Deviations if any:				NIL	



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4030		NR		LWSCZAC		143156		06-09-2014	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146763						146764			
	ii.	Frame No.	FIAT-3422						FIAT-3362			
	iii.	Bolster No.	4123-ECBT						4028-P			
	iv.	Axle No.	105847/627			RWF-109776			105778/627		105842/627	
	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.	340-11605	203-11603	225-11607	083-11603	276-11603	102-11603	353-11603	032-11603		
	vii.	R.B. Nos.	35827	36336	01573	01384	01291	00936	00916	01587		
	viii.	R.B. Make	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	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.	G-12-6-1454	G-12-6-2805	G-12-6-1642	G-12-6-2748	G-12-6-1626	G-12-6-2739	G-12-6-1433	G-12-6-2852			
ii.	Ht. attest load	510	465	510	466	511	465	510	466			
iii.	Align .deviation	10	16	10	20	6	18	7	20			
12.3	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-12-05			G-12-05			GF	
	iii.	Primary Damper									KONI	
	iv.	Secondary damper									GEREP	
	v.	Lateral Damper									KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper									FTI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									SGA	
	x.	Lateral Bump stop									SGA	
	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									EMSON	
12.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4033	DISPATCH DATE			18.11.2014
2.	Railway	NR	Type	LWSCZAC	Coach No.	143155
3.	Booked to	SSE/C&W/NDLS				
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	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	88/88	
	8.2	APPLICATION OF PCN-123	SATISFACTORY			
	8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:			Make		
	i.	BRAKE EQUIPMENT			FAIVELEY	
	iii.	CDTS			VIBHU	
	iv.	SEAT & BERTH			SUTLEJ	
	v.	BODY SIDE DOORS			JBM	
	vi.	SALOON COMPTT DOORS			AIR FLOW	
	vii.	VESTIBULE SLIDING DOOR			KALSI	
	viii.	WATER TANKS			SHIVALIK, KUTEER	
	ix	UIC VESTIBULE			KRP	
	x	LUGGAGE RACK			HANSPAL	
	XI	FLOOR BOARD			TAYAL	
	XII	PVC			RESPONSIVE	
10.						
	10.1	Modification / Trail (if any):			NIL	
	10.2	Deviations if any:			NIL	



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12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4033	NR	LWSCZAC	143155	22-08-2014			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	146722				146721			
	ii.	Frame No.	FIAT-3406				FIAT-3410			
	iii.	Bolster No.	4078-VT				3984-P			
	iv.	Axle No.	RWF-110202	129272/982		Z-3953		RWF-108924		
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	917.50	917.00	915.00	915.00
	vi.	Wheel Disc No.	114-11610	005-11600	045-11605	269-10559	302-11605	261-11605	222-10583	247-11605
	vii.	R.B. Nos.	00317	34299	00594	36551	35798	35912	34595	35846
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
12.2	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.	G11-11-257	G12-10-3739	G11-11-208	G12-10-4087	G11-11-210	G12-10-4092	G11-11-271	G12-10-4096	
ii.	Ht. attest load	508	464	510	467	509	465	510	467	
iii.	Align .deviation	2	14	4	16	5	20	8	18	
12.3	Items traceability:									
	Sno.	Item		PP Side Bogie		NPP side Bogie		Make		
	i.	Primary Outer Spring		G-10-12		G-10-12		GF		
	ii.	Primary inner Spring		G-05-12		G-05-12		GF		
	iii.	Primary Damper						KONI		
	iv.	Secondary damper						SACHS		
	v.	Lateral Damper						SACHS		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper						-----		
	viii.	Brake Disc						KBI		
	ix.	Ball joint Control arm						GMT		
	x.	Lateral Bump stop						MTC		
	xi.	Traction center make						SARITA		
	xii.	Traction lever make						SARITA		
	xiii.	Ball joint traction lever						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						EMSON		
12.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

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Form No. : QMF 9454; Version: 1

1.	SHELL No.	4032	DISPATCH DATE			18.11.2014
2.	Railway	NR	Type	LWSCZAC	Coach No.	143154
3.	Booked to	SSE/C&W/NDLS				
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	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	88/88	
	8.2	APPLICATION OF PCN-123	SATISFACTORY			
	8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:			Make		
	i.	BRAKE EQUIPMENT			FAIVELEY	
	iii.	CDTS			AIR FLOW	
	iv.	SEAT & BERTH			SUTLEJ	
	v.	BODY SIDE DOORS			JBM	
	vi.	SALOON COMPTT DOORS			HANSPAL	
	vii.	VESTIBULE SLIDING DOOR			KALSI	
	viii.	WATER TANKS			SHIVALIK, KUTEER	
	ix	UIC VESTIBULE			KRP	
	x	LUGGAGE RACK			HANSPAL	
	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

12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4032	NR	LWSCZAC	143154	05-09-2014			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	146768				146767			
	ii.	Frame No.	FIAT-3388				FIAT-3412			
	iii.	Bolster No.	4029-P				2988-GT			
	iv.	Axle No.	Z-3845		128578/989		106237/629		RWF-110307	
	v.	Wheel Dia.	915.00	915.00	916.50	916.50	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	013-10559	162-11600	161-10559	206-11611	099-10583	105-10582	189-11607	125-10568
	vii.	R.B. Nos.	00806	36533	36568	36606	00911	36493	01072	01309
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
12.2	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.	G12-6-2020	G12-6-3605	G12-6-2019	G12-6-3611	G12-6-2035	G12-6-3339	G12-6-2028	G12-6-3565	
ii.	Ht. attest load	510	467	510	467	509	465	511	468	
iii.	Align .deviation	4	29	4	28	4	35	5	36	
12.3	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-12-05		G-12-05		GF		
	iii.	Primary Damper						KONI		
	iv.	Secondary damper						GEREP		
	v.	Lateral Damper						KONI		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper						FTI		
	viii.	Brake Disc						KBI		
	ix.	Ball joint Control arm						SGA		
	x.	Lateral Bump stop						SGA		
	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						EMSON		
12.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

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