



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4007	DISPATCH DATE				07.07.2015
2.	Railway	SWR	Type	LWSCZ	Coach No.	14632	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
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		GS	85/86	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
i.	BRAKE EQUIPMENT				FAIVELEY		
iii.	CDTS				ORIENTAL		
iv.	SEAT & BERTH				SUTLEJ		
v.	BODY SIDE DOORS				JBM		
vi.	SALOON COMPTT DOORS				NA		
vii.	VESTIBULE SLIDING DOOR				KALSI		
viii.	WATER TANKS				RAIL FAB		
ix	UIC VESTIBULE				FRIKMART		
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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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4007	SWR	LWACCW	14632	12-06-2015			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156410				156409			
	ii.	Frame No.	FIAT-4074				FIAT-3971			
	iii.	Bolster No.	4780-P				4717-VT			
	iv.	Axle No.	C-4296		128565/989		A-2950		Z-3767	
	v.	Wheel Dia.	910.00	910.00	913.00	913.00	914.00	914.00	913.50	913.50
	vi.	Wheel Disc No.	018-63305	291-11600	069-63301	029-63302	094-10582	202-10579	145-10570	334-11610
	vii.	R.B. Nos.	04779	04714	01766	01901	03601	04815	03750	04037
	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.	CMAFJ-14-09-14	CMAFJ-14-05-89	CMAFJ-14-09-18	CMAFJ-14-05-62	CMAFJ-14-09-49	CMAFJ-14-05-67	CMAFJ-14-09-27	CMAFJ-14-05-73	
ii.	Ht. at test load	512	468	511	468	510	468	511	467	
iii.	Align .deviation	19	5	19	5	15	7	15	10	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	CMRSK-14-05		CMRSK-14-05		RSK			
	ii.	Primary inner Spring	CMRSK-14-05		CMRSK-14-05		RSK			
	iii.	Primary Damper	24477,24452,24427,24588		24458,24469,24637,24425		KONI			
	iv.	Secondary damper	4169,4880		4861,4724		KONI			
	v.	Lateral Damper	410		489		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	E15010/600,E15036/600, E15031/600,E15020/600		E15028/600,E15037/600, E15035/600,E15007/600		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):	LESS WHEEL DIA							

LWSCZ-4007



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5002	DISPATCH DATE				14.07.2015
2.	Railway	SWR	Type	LWSCN1	Coach No.	15259	
3.	Booked to		SSE/C&W/SBC				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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)	FAIVELEY	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	86/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i	BRAKE EQUIPMENT	KBI				
	ii	SEAT & BERTH	SAVITRI				
	iii	BODY SIDE DOORS	JBM				
	iv	WATER TANKS	SHIVALIK, E C BLADES				
	v	FLOOR BOARD	TAYAL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	ELASTOMER				
	viii	VESTIBULE SLIDING DOOR	KALSI				
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5002	SWR	LSCN	15259	13-06-2015			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156399				156400			
	ii.	Frame No.	FIAT-3975				FIAT-3955			
	iii.	Bolster No.	4709-VT				4590-P			
	iv.	Axle No.	126088/475		C4565		C-4247		C-4068	
	v.	Wheel Dia.	916.50	916.00	915.00	915.00	915.00	915.00	916.00	916.00
	vi.	Wheel Disc No.	256-10568	336-63307	193-63307	289-10568	098-10582	214-63307	351-10568	144-63301
	vii.	R.B. Nos.	04003	04383	04334	04207	04019	04228	04609	03667
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<u>Secondary suspension load deflection Values:</u>									
	Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2	
			Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
i.	Make & nos.		DN-14-01-324	DN-14-02-377	DN-14-01-300	DN-14-03-410	DN-14-01-459	DN-14-01-207	DN-14-01-484	DN-14-02-NIL
ii.	Ht. at test load		516	468	516	471	515	472	515	472
iii.	Align .deviation		8	6	8	6	8	10	8	9
11.3	<u>Items traceability:</u>									
	Sno.	Item	PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring	G-14-3			G-14-3			GF	
	ii.	Primary inner Spring	G-14-12			G-14-12			GF	
	iii.	Primary Damper	1653,2414,1629,1891			1833,2411,2543,2519			GEREP	
	iv.	Secondary damper	341,58			250,450			GEREP	
	v.	Lateral Damper	2874			3031			KONI	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper	1077/691,1103/691, 1076/691,1104/691			1075/691,1122/691, 1074/691,1101/691			KBI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							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):				NIL				
	ii.	Deviations (if any):				NIL				

LSCN5002

