



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4037	DISPATCH DATE				12.08.2015
2.	Railway	SER	Type	LWLRRM	Coach No.	148852	
3.	Booked to	SSE/C&W/SRC					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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	1100	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	87		
	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.	SEATS/S&B	AMIR CHAND				
	v.	BODY SIDE DOOR	JBM				
	vi.	VESTIBULE SLIDING DOOR	KALSI				
	vii.	CREW-GEN & GUARD ROOM DOOR	CONCEPT/JBM				
	viii.	WATER TANKS	E C BLADES, KUTEER				
	ix	FUEL TANK	GAURAV				
	x	UIC VESTIBULE	ELASTOMER				
	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	
			4037		SER		LWLRRM		148852		22-01-2015	
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	156067					156066				
	ii.	Frame No.	SCI-FM-84					SCI/FM-66				
	iii.	Bolster No.	4355-VT					4379-VT				
	iv.	Axle No.	B-9929		B-9762		A-2990		C-4198			
	v.	Wheel Dia.	916.50	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	060-11611	260-63301	106-63305	058-10582	259-10579	076-11610	129-11610	143-10579		
	vii.	R.B. Nos.	01076	03185	02972	02906	02968	02820	03022	03368		
	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.	G-12-10-197	G-12-10-143	G-12-10-210	G-12-10-136	CMGBD-14-02-19	G-12-9-343	CMGBD-14-02-12	G-12-9-406			
ii.	Ht. attest load	510	467	511	466	512	469	510	469			
iii.	Align .deviation	2	10	5	10	8	13	7	10			
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			G-12-5		G-12-5		GF			
	iii.	Primary Damper			22572,22705,22569,22566		21780,22604,22556,20995		KONI			
	iv.	Secondary damper			458,491		267,490		GEREP			
	v.	Lateral Damper			229		495		GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			141792/2000,141842/2000 141799/2000,141843/2000		141731/2000,141819/2000 141819/2000,141800/2000		FTI			
	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							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			
11.4	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.	4035	DISPATCH DATE				06.08.2015
2.	Railway	SER	Type	LWLRRM	Coach No.		148851
3.	Booked to			SSE/C&W/SRC			
4.	Tare Weight of Coach			53.4 T			
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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	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	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.	SEATS/S&B			AMIR CHAND		
	v.	BODY SIDE DOOR			JBM		
	vi.	VESTIBULE SLIDING DOOR			KALSI		
	vii.	CREW-GEN & GUARD ROOM DOOR			CONCEPT/JBM		
	viii.	WATER TANKS			E C BLADES, KUTEER		
	ix	FUEL TANK			GAURAV		
	x	UIC VESTIBULE			ELASTOMER		
	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.	12.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date					
			4035	SER	LWLRRM	148851	24-04-2015					
11.1	12.1	Wheel & Axle Details:	LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)					
		i. Bogie No.	156313				156317					
		ii. Frame No.	FM-117				FIAT-3888					
		iii. Bolster No.	4708-VT				4534-GTR					
		iv. Axle No.	126799/458		129664/985		125646/377		A-3204			
		v. Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00		
		vi. Wheel Disc No.	325-10533	024-10533	280-10582	104-10533	154-10533	180-63305	064-10579	056-63301		
		vii. R.B. Nos.	37302	36842	36480	38087	37879	36488	37265	36463		
		viii. R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
		ix. RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	12.2	Secondary suspension load deflection Values:										
		Description		Description		Secondary 1		Secondary 2		Secondary 1		Seconda
						Outer	Inner	Outer	Inner	Outer	Inner	Outer
i.	i.	Make & nos.	G-10-12-165	HZ-13	G-10-12-131	HZ-13	CMFSK03-15-11	G-9-12-391	CMFSK-3-15-20	G-9-12-209		
ii.	ii.	Ht. attest load	511	466.8	510	467.1	513	471	512	470		
iii.	iii.	Align .deviation	6	6.1	4	3.9	6	17	8	22		
11.3	12.3	Items traceability:										
		Sno.	Item			PP Side Bogie		NPP side Bogie		Make		
		i.	Primary Outer Spring			L&S-14-5		L&S-12-05		L&S		
		ii.	Primary inner Spring			CMFSK		CMFSK		CMFSK		
		iii.	Primary Damper			31,53,19,84		72,15,73,87		GEREP		
		iv.	Secondary damper			850,870		867,848		GEREP		
		v.	Lateral Damper			2973		2829		KONI		
		vi.	Yaw Damper							NIL		
		vii.	Brake cylinder & Caliper			J1189/261,J1138/260, J2018/261,J1188/260		J2017/261,J2013/261, J2136/261,J2029/261		KBI		
		viii.	Brake Disc							FTI		
		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							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,EMSON		
11.4	12.4	i.	Modification / Trial (if any):				NIL					
		ii.	Deviations (if any):				NIL					