



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5031	DISPATCH DATE				11.02.2016
2.	Railway	SCR	Type	LWCBAC	Coach No.	15811	
3.	Booked to	SSE/C&W/SC					
4.	Tare Weight of Coach	40.9 T					
5.	Carrying Capacity	Seating	NIL	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	1100	1095		
	v)	Buffer/CBC (Make)	ESCORTS	Fiba Device	NIL		
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	3.80 ± 0.15 Kg/cm ²	3.80		
			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	FAIVELEY				
	ii.	CDTS/ BIO TOILET	RAIL TECH				
	iii.	SEATS/ BERTHS	AAR KAY FOAMS				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	SALOON DOOR	HP				
	vii.	WATER TANKS	KUTEER, SHIVALIK & MANOJ				
	viii.	UIC VESTIBULE	SUNCREAST				
	ix	FLOOR BOARD	NARBADA				
	X	PVC	RESPONSIVE				
	Xi	LP SHEET					
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	
			5031		SCR		LWCBAC		15811/C		06-01-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166008					166013				
	ii.	Frame No.	FIAT-4419					FIAT-4582				
	iii.	Bolster No.	5396-VT					5387-VT				
	iv.	Axle No.	128124/984		128063/988		125598/877		129050/986			
	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.	6221-00116	6210-00093	6210-00164	06234-00069	6221-00140	06230-00060	06230-00116	06234-00110		
	vii.	R.B. Nos.	05082	05151	04693	07176	04594	04833	04657	07457		
	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.	DN-13-02-3125	DN-12-10-1690	DN-13-02-3096	DN-12-10-1620	DN-12-11-2027	DN-12-10-1718	DN-12-12-2393	DN-13-05-2135			
ii.	Ht. at test load	503	467	503	466	507	467	506	466			
iii.	Align .deviation	19	17	18	12	14	16	15	24			
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			L&S-13-2		L&S-13-2		L&S			
	iii.	Primary Damper			177,223,103,131		148,397,299,149		GEREP			
	iv.	Secondary damper			448,419		465,21		GEREP			
	v.	Lateral Damper			130		134		GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			L15022/600,L15053/600 L15028/600,L15012/600		M15048/600,M15006/600 M15040/600,M15016/600		FTI			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							MGN			
	x.	Lateral Bump stop							MGN			
	xi.	Traction center make							EMSON,SAR ITA			
	xii.	Traction lever make							SARITA			
	xiii.	Ball joint traction lever							SGA			
	xiv.	Traction centre elastic							GMT			
	xv.	Secondary rubber pad							WINLANE			
	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.	5045	DISPATCH DATE				04.02.2016
2.	Railway	SCR	Type	LWCBAC	Coach No.	15810	
3.	Booked to	SSE/C&W/SC					
4.	Tare Weight of Coach	40.9 T					
5.	Carrying Capacity	Seating	NIL	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)	FAIVELEY	Fiba Device	NIL			
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	3.80 ± 0.15 Kg/cm ²		3.80		
		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	FAIVELEY					
ii.	CDTS/ BIO TOILET	RAIL TECH					
iii.	SEATS/ BERTHS	AAR KAY FOAMS					
iv.	BODY SIDE DOOR	JBM, SUKATA					
v.	VESTIBULE SLIDING DOOR	KALSI					
vi.	SALOON DOOR	HP					
vii.	WATER TANKS	KUTEER, SHIVALIK & MANOJ					
viii.	UIC VESTIBULE	ESCORTS					
ix	FLOOR BOARD	NARBADA					
X	PVC	RESPONSIVE					
Xi	LP SHEET						
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			
			5045	SC	LWCBAC	15810/C	09-01-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166015				166014			
	ii.	Frame No.	FIAT-4380				FIAT-4371			
	iii.	Bolster No.	5376-VT				5362-P			
	iv.	Axle No.	126667/480	130155/469	126355/474	114746/376				
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	915.50	916.00	
	vi.	Wheel Disc No.	06221-00194	06226-00012	06226-00137	06226-00136	6210-00084	6226-00079	7172-00166	06228-00100
	vii.	R.B. Nos.	01588	05030	05719	01642	04361	02621	03991	03886
	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.	DN-12-8-2810	DN-12-10-1616	DN-12-6-2585	DN-12-6-1376	DN-12-5-468	RSK-15-9-274	DN-12-5-1665	RSK-15-9-349	
ii.	Ht. at test load	506	463	506	466	503	465	504	468	
iii.	Align .deviation	14	11	17	13	16	32	17	36	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie			NPP side Bogie		Make		
	i.	Primary Outer Spring	RSK-13-2			RSK-13-2		RSK		
	ii.	Primary inner Spring	RSK-11-5			RSK-11-5		RSK		
	iii.	Primary Damper	407,246,403,342			384,112,256,122		GEREP		
	iv.	Secondary damper	415,430			432,520		GEREP		
	v.	Lateral Damper	237			313		GEREP		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper	M15126/600,M15088/600, M15079/600,M15086/600			L15116/600,L15105/600 L15126/600,L15128/600		FTI		
	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						GMT,SGA		
	xiv.	Traction centre elastic						SGA,MGN		
	xv.	Secondary rubber pad						WINLANE		
	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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