



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5076	DISPATCH DATE				23.03.2016
2.	Railway	WR	Type	LWLRRM	Coach No.	16851	
3.	Booked to	SSE/C&W/BCT					
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	1102	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	GS	87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	KBI				
	iii.	CDTS	RAIL TECH				
	iv.	SEATS/S&B	GANDHI				
	v.	BODY SIDE DOOR	JBM				
	vi.	VESTIBULE SLIDING DOOR	HANSPAL				
	vii.	CREW-GEN & GUARD ROOM DOOR	JBM/JBM				
	viii.	WATER TANKS	AMIT & KUTEER				
	ix	FUEL TANK	GAURAV				
	x	UIC VESTIBULE	ESCORTS				
	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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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5076		WR		LWLRRM		16851/C		20-02-2016	
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	166175					166176				
	ii.	Frame No.	FIAT-4653					FIAT-4291				
	iii.	Bolster No.	5541-VT					5510-P				
	iv.	Axle No.	K-3093		K-3060		K-2758		K-3868			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.50	916.00	916.00	916.00		
	vi.	Wheel Disc No.	6229-00062	6226-00089	06229-00004	6206-00067	06230-00129	6227-00129	6229-00152	6226-00021		
	vii.	R.B. Nos.	02606	03965	03884	01119	02494	02446	03710	03082		
	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-15-9-182	G-15-9-016	G-15-9-215	G-15-9-019	G-15-9-149	G-15-9-027	G-15-9-214	G-15-9-110			
ii.	Ht. at test load	511	464	510	468	511	468	513	470			
iii.	Align .deviation	1	11	3	15	17	5	18	9			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			BPS-2013		BPS-2013		BPS			
	ii.	Primary inner Spring			GBD-15-8		GBD-15-8		GBD			
	iii.	Primary Damper			2174,1404,1483,2296		1487,2110,2149,1424		GEREP			
	iv.	Secondary damper			488,404		355,248		GEREP			
	v.	Lateral Damper			3679		3680		KONI			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							-----			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							MGN			
	x.	Lateral Bump stop							MGN			
	xi.	Traction center make							EMSON			
	xii.	Traction lever make							SARITA			
	xiii.	Ball joint traction lever							SGA			
	xiv.	Traction centre elastic							SGA,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			
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.	5075	DISPATCH DATE				26.03.2016
2.	Railway	WR	Type	LWLRRM	Coach No.		16852
3.	Booked to			SSE/C&W/BCT			
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	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		GS	85	
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT				FAIVELEY	
	iii.	CDTS				RAIL TECH	
	iv.	SEATS/S&B				GANDHI	
	v.	BODY SIDE DOOR				JBM	
	vi.	VESTIBULE SLIDING DOOR				CONCEPT	
	vii.	CREW-GEN & GUARD ROOM DOOR				JBM/JBM	
	viii.	WATER TANKS				AMIT & KUTEER	
	ix	FUEL TANK				GAURAV	
	x	UIC VESTIBULE				ESCORTS	
	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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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5075	WR	LWLRRM	16852/C	20-02-2016			
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	166183				166184			
	ii.	Frame No.	FIAT-4374				FIAT-4517			
	iii.	Bolster No.	5548-P				5485-P			
	iv.	Axle No.	K-4028		K-3075		K-3081		J-8440	
	v.	Wheel Dia.	916.50	916.50	916.50	916.00	916.00	916.00	918.00	918.00
	vi.	Wheel Disc No.	06234-00151	06226-00151	06234-00004	6227-00098	06227-00155	06234-00013	6227-00150	06150-00057
	vii.	R.B. Nos.	02956	03351	06145	02963	06230	06416	04987	04161
	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-15-9-237	G-15-9-120	G-15-9-191	G-15-9-110	G-15-9-242	G-15-9-014	G-15-9-233	G-15-9-109	
ii.	Ht. at test load	511	467	509	466	511	466	511	468	
iii.	Align .deviation	17	11	13	11	13	5	15	7	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring	GBD-15-11			GBD-15-11			GBD	
	ii.	Primary inner Spring	GBD-15-8			GBD-15-8			GBD	
	iii.	Primary Damper	1422,1461,1437,2252			1441,1423,2225,1426			GEREP	
	iv.	Secondary damper	1299,952			965,1295			GEREP	
	v.	Lateral Damper	L-3638			L-3578			KONI	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper	B16015/2000,B16011/2000 B16011/2000,B16002/2000			B16013/2000,B16006/2000 B16014/2000,B16001/2000			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							SGA	
	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							SARITA	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

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