



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5066	DISPATCH DATE				05.03.2016
2.	Railway	SER	Type	LWLRRM	Coach No.		158852
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	1105	
	v)	Buffer/CBC (Make)	SANROK		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	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 FAB	
	iv.	SEATS/S&B				GANDHI	
	v.	BODY SIDE DOOR				JBM	
	vi.	VESTIBULE SLIDING DOOR				KALSI	
	vii.	CREW-GEN & GUARD ROOM DOOR				JBM/JBM	
	viii.	WATER TANKS				E C BLADES, AMIT	
	ix	FUEL TANK				OMAX	
	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	
			5066		SER		LWLRRM		158852		30-12-2015	
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)					
	i.	Bogie No.	157014				157015					
	ii.	Frame No.	VS/M/C-25				FIAT-4526					
	iii.	Bolster No.	5346-P				5361-P					
	iv.	Axle No.	126337/047		126321/474		128897/990		128281/991			
	v.	Wheel Dia.	915.00	915.00	916.00	916.00	915.00	915.00	916.00	916.00		
	vi.	Wheel Disc No.	6227-00085	6227-00081	6227-00175	6227-00170	6227-00084	6227-00128	6226-00081	6226-00109		
	vii.	R.B. Nos.	03683	04070	04440	04404	03895	03994	03615	04156		
	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.	CMFSK-15-9-35	CMAFJ-15-5-03	CMFSK-15-9-05	CMAFJ-15-5-05	CMFSK-15-9-35	GBD-15-6-8	CMFSK-15-9-40	GBD-15-6-25			
ii.	Ht. at test load	512	468	510.50	468	510	470	510	468			
iii.	Align .deviation	7	3	11	5	9	21	11	22			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			FSK-15-9		FSK-15-9		FSK			
	ii.	Primary inner Spring			FSK-15-6		FSK-15-6		FSK			
	iii.	Primary Damper			1134,1149,1072,545		1075,1125,1093,1076		GEREP			
	iv.	Secondary damper			417,407		444,439		GEREP			
	v.	Lateral Damper			00096		00097		KNORR			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							-----			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							GMT			
	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							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			
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.	5062	DISPATCH DATE				12.03.2016
2.	Railway	SER	Type	LWLRRM	Coach No.		158853
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	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		ADVANCE	68	
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT				FAIVELEY	
	iii.	CDTS				RAIL FAB	
	iv.	SEATS/S&B				GANDHI	
	v.	BODY SIDE DOOR				JBM	
	vi.	VESTIBULE SLIDING DOOR				KALSI	
	vii.	CREW-GEN & GUARD ROOM DOOR				JBM/JBM	
	viii.	WATER TANKS				KUTEER, MANOJ	
	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			
			5062	SER	LWLRRM	158853/C	23-02-2016			
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	166180				166179			
	ii.	Frame No.	FIAT-4623				FIAT-4634			
	iii.	Bolster No.	5488-P				4536-GT			
	iv.	Axle No.	128530/983	129133/992	129182/992	130146/469				
	v.	Wheel Dia.	916.50	916.00	916.50	916.50	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	06229-00102	06229-00061	06229-00015	6206-00003	06229-00115	7290-00128	6229-00229	06234-00033
	vii.	R.B. Nos.	05835	33747	34464	05299	21897	33892	34829	22929
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	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-15-9-235	G-15-9-105	G-15-9-178	G-15-9-108	G-15-9-248	G-15-9-011	G-15-9-209	G-15-9-066	
ii.	Ht. at test load	511	466	510	465	513	468	514	471	
iii.	Align .deviation	2	7	4	13	12	7	14	3	
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	1443,1433,2157,2207			2160,2258,2223,1480			GEREP	
	iv.	Secondary damper	255,321			233,220			GEREP	
	v.	Lateral Damper	3763			3740			KONI	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper	A16022/2000,A16012/2000 A16018/2000,A16011/2000			A16020/2000,A16007/2000 A160017/2000,A16011/2000			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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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5050	DISPATCH DATE				29.2.2016
2.	Railway	SER	Type	LWLRRM	Coach No.		158851
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	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		ADVANCE	85	
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT				FAIVELEY	
	iii.	BIO TANK				RAIL FAB	
	iv.	SEATS/S&B				GANDHI	
	v.	BODY SIDE DOOR				JBM	
	vi.	VESTIBULE SLIDING DOOR				KALSI	
	vii.	CREW-GEN & GUARD ROOM DOOR				JBM/JBM	
	viii.	WATER TANKS				EC BLADE,AMIT	
	ix	FUEL TANK				OMAX	
	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	
			5050		SER		LWLRRM		158851/C		29-12-2015	
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	157013					157012				
	ii.	Frame No.	FIAT-4431					FIAT-4262				
	iii.	Bolster No.	5247-P					5354-P				
	iv.	Axle No.	126872/470		127915/988		126816/488		127974/988			
	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.	07279-00123	7290-00161	6226-00214	06234-00117	06230-00085	6270-00133	06228-00033	6221-00176		
	vii.	R.B. Nos.	03516	03377	03020	04859	01481	01452	03905	04143		
	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.	CMFSK-15-7-66	AFJ-15-7-7	CMFSK-15-7-68	AFJ-15-7-6	CMFSK-15-9-22	GBD-15-8-5	CMFSK-15-9-46	GBD-15-8-01			
ii.	Ht. at test load	508	468	508.50	468	512.50	467	510.50	467.50			
iii.	Align .deviation	8	16	6	15	10	23	8	22			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			FSK-15-6			FSK-15-6			FSK	
	ii.	Primary inner Spring			FSK-15-6			FSK-15-6			FSK	
	iii.	Primary Damper			1132,1112,1098,1117			1105,1096,1133,1107			GEREP	
	iv.	Secondary damper			475,521			518,81			GEREP	
	v.	Lateral Damper			119			45			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			A16007/2000,A16007/2000 A16009/2000,A16004/2000			A16004/2000,A16002/2000 A16006/2000,A16001/2000			FTI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									GMT	
	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									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	
11.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

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