



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5047	DISPATCH DATE				17.02.2016
2.	Railway	ECR	Type	LWLRRM	Coach No.		15861
3.	Booked to			SSE/C&W/SPJ			
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		VIBGYOR	88	
	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				SUKATA	
	vi.	VESTIBULE SLIDING DOOR				KALSI	
	vii.	CREW-GEN & GUARD ROOM DOOR				JBM/JBM	
	viii.	WATER TANKS				AMIT & E C BLADES	
	ix	FUEL TANK				GAURAV	
	x	UIC VESTIBULE				SUNCREAST	
	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	
			5047		ECR		LWLRRM		15861/C		08-01-2016	
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	166023					166026				
	ii.	Frame No.	FIAT-4560					FIAT-4528				
	iii.	Bolster No.	5409-VT					5405-VT				
	iv.	Axle No.	126969/476		125880/497		127036/476		128181/984			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00		
	vi.	Wheel Disc No.	7282-00149	6221-00097	6227-00075	7282-00170	6226-00064	6210-00162	6230-00055	6225-00167		
	vii.	R.B. Nos.	01440	01404	01559	04886	01332	01439	01153	03937		
	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-15-11-29	CMAFJ-12-5-17	CMFSK-15-11-23	CMAFJ-12-5-18	CMFSK-15-9-38	CMAFJ-15-12-10	CMFSK-15-9-37	CMAFJ-15-12-13			
ii.	Ht. at test load	511.50	467	512.50	468	510	471	510	471			
iii.	Align .deviation	8	17	9	18	6	9	8	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			BPS-13-2		BPS-13-2		BPS			
	iii.	Primary Damper			409,162,153,234		286,400,26,262		GEREP			
	iv.	Secondary damper			1834,1517		1510,1423		GEREP			
	v.	Lateral Damper			80		576		GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			N15002/2000,N15010/2000 N15007/2000,N15012/2000		N15009/2000,N15006/2000 N15005/2000,N15018/2000		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			
	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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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5068	DISPATCH DATE				16.02.2016
2.	Railway	ECR	Type	LWLRRM	Coach No.	15862	
3.	Booked to	SSE/C&W/SPJ					
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	1104		
	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	FAIVELEY				
	iii.	CDTS	RAIL FAB				
	iv.	SEATS/S&B	GANDHI				
	v.	BODY SIDE DOOR	SUKATA,JBM				
	vi.	VESTIBULE SLIDING DOOR	KALSI				
	vii.	CREW-GEN & GUARD ROOM DOOR	JBM/JBM				
	viii.	WATER TANKS	AMIT & E C BLADES				
	ix	FUEL TANK	GAURAV				
	x	UIC VESTIBULE	SUNCREAST				
	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			
			5068	ECR	LWLRRM	15862/C	21-01-2016			
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	166063				166062			
	ii.	Frame No.	FIAT-4360				FIAT-4575			
	iii.	Bolster No.	5448-P				5461-P			
	iv.	Axle No.	129085/492	114742/376	128439/983	129387/982				
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	7290-00016	07297-00008	6210-00115	06210-00100	6226-00173	06223-00077	7216-00156	6227-00063
	vii.	R.B. Nos.	17208	38519	17403	05681	02223	34029	38536	06034
	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.	AFJ-15-12-21	G-15-9-091	AFJ-15-12-22	G-15-9-119	AFJ-15-12-5	AFJ-15-12-33	AFJ-15-12-12	AFJ-15-12-36	
ii.	Ht. at test load	510	465	512	464	515	471	515	471	
iii.	Align .deviation	9	14	5	12	12	8	15	8	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	G-15-09		G-15-09		GF			
	ii.	Primary inner Spring	FSK-15-09		FSK-15-09		FSK			
	iii.	Primary Damper	1420,1440,1764,1393		1600,1688,1766,1778		GEREP			
	iv.	Secondary damper	4663,4589		4917,4558		KONI			
	v.	Lateral Damper	351		429		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	N15003/2000,N15006/2000 N15004/2000,N15005/2000		N15017/2000,N15009/2000 N15013/2000,N15010/2000		FTI			
	viii.	Brake Disc					KBI			
	ix.	Ball joint Control arm					GMT,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					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.	5028	DISPATCH DATE				15.02.2016
2.	Railway	ECR	Type	LWLRRM	Coach No.	15863	
3.	Booked to	SSE/C&W/SPJ					
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	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	AIR FLOW				
	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	AMIT & E C BLADES				
	ix	FUEL TANK	GAURAV				
	x	UIC VESTIBULE	ESCORT				
	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			
			5028	ECR	LWLRRM	15863/C	06-01-2016			
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	166019				166018			
	ii.	Frame No.	FIAT-4554				FIAT-4562			
	iii.	Bolster No.	5427-VT				5305-VT			
	iv.	Axle No.	129293/982	126566/480	126659/480	125707/139				
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	6226-00210	06226-00133	6221-00099	06227-00088	06226-00068	06226-00152	6210-00082	06234-00129
	vii.	R.B. Nos.	07526	04797	03582	02489	04931	07274	07281	04681
	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.	FSK-13-01-45	AFJ-12-5-20	FSK-13-01-12	AFJ-12-5-19	FSK-15-9-8	AFJ-15-5-11	FSK-15-9-1	AFJ-12-5-9	
ii.	Ht. at test load	507	467	508	468	510.50	471	511	471	
iii.	Align .deviation	10	5	10	2	8	17	8	16	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	L&S-12-5		L&S-12-5		L&S			
	ii.	Primary inner Spring	FSK-15-5		FSK-15-5		FSK			
	iii.	Primary Damper	392,260,410,221		23,233,412,176		GEREP			
	iv.	Secondary damper	422,481		404,464		GEREP			
	v.	Lateral Damper	218		312		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	N15006/2000,N15003/2000 N15014/2000,N15004/2000		N15011/2000,N15002/2000 N15010/2000,N15003/2000		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					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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