



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5013	DISPATCH DATE				05.10.2015
2.	Railway	NER	Type	LWLRRM	Coach No.	14865	
3.	Booked to	SSE/C&W/GKP					
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	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			CP/CP		
	viii.	WATER TANKS			E C BLADES & SHIVALIK		
	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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12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5013	NE	LWLRRM	14865/C	27-08-2015			
12.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	156358				156590			
	ii.	Frame No.	FIAT-3917				FIAT-4181			
	iii.	Bolster No.	108-VT-ASR				4967-VT			
	iv.	Axle No.	129013/986	127034/476	126444/481	128893/990				
	v.	Wheel Dia.	917.00	917.00	916.50	916.00	916.00	916.00	915.50	916.00
	vi.	Wheel Disc No.	6194-00169	6194-00168	6194-00037	6232-00173	6194-00082	6232-00210	6198-00214	6196-00211
	vii.	R.B. Nos.	02290	21964	21954	02297	21978	02317	21980	02306
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
12.2	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-13-5-031	G-13-5-176	G-13-5-110	G-13-5-182	G-15-4-102	G-12-09-214	G-15-4-062	G-12-09-167	
ii.	Ht. attest load	509	467	509	466	513	469	513	470	
iii.	Align .deviation	10	11	12	14	11	13	15	15	
12.3	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	GBD-14-11		GBD-14-11		GBD			
	iii.	Primary Damper	393,322,1605,1122		482,348,301,500		GEREP			
	iv.	Secondary damper	571,969		665,1288		GEREP			
	v.	Lateral Damper	552		502		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	142010/2000,142056/2000 142013/2000,142050/2000		141770/2000,141732/2000 141719/2000,141737/2000		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					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			
12.4	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.	5011	DISPATCH DATE				03.10.2015	
2.	Railway	NER	Type	LWLRRM	Coach No.		14866	
3.	Booked to			SSE/C&W/GKP				
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		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					RCF		
v.	BODY SIDE DOOR					JBM		
vi.	VESTIBULE SLIDING DOOR					KALSI		
vii.	CREW-GEN & GUARD ROOM DOOR					CONCEPT/CONCEPT		
viii.	WATER TANKS					E C BLADES, SHIVALIK		
ix	FUEL TANK					GAURAV		
x	UIC VESTIBULE					SUNCREAST		
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	
			5011		NER		LWLRRM		14866		11-09-2015	
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	156665					156664				
	ii.	Frame No.	FIAT-4137					SCI/FM-236				
	iii.	Bolster No.	4999-VT					5022-VT				
	iv.	Axle No.	126581/481		128841/990			126294/474		128853/990		
	v.	Wheel Dia.	916.00	916.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	6198-00177	6198-00172	6229-00157	6213-00002	6196-00091	6229-00033	6229-00121	6196-00080		
	vii.	R.B. Nos.	22559	21852	30435	22802	30402	22790	29994	22814		
	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.	DN-12-11-334	G-13-5-093	DN-12-11-275	G-13-5-166	CMFSK-15-05-11	DN-12-11-275	CMFSK-15-05-9	DN-12-11-288			
ii.	Ht. at test load	506	466	506	466	514	464	515	466			
iii.	Align .deviation	6	10	9	12	6	8	10	8			
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			FSK-11			FSK-11			FSK	
	iii.	Primary Damper			26794,26669,26378,26779			26766,26778,26750,26336			KONI	
	iv.	Secondary damper			5302,5503			5014,5255			KONI	
	v.	Lateral Damper			194			282			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			135016/2000,145002/2000 142122/2000,142084/2000			142017/2000,112034/2000 142020/2000,142040/2000			FTI	
	viii.	Brake Disc									KBI,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									TESPAK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									SARITA	
	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.	4011	DISPATCH DATE				26.09.2015
2.	Railway	NER	Type	LWLRRM	Coach No.	14864	
3.	Booked to	SSE/C&W/GKP					
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	1104	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	VIBGYOR	86		
	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	CONCEPT/CONCEPT				
	viii.	WATER TANKS	E C BLADES, KUTEER				
	ix	FUEL TANK	GAURAV				
	x	UIC VESTIBULE	SUNCREAST				
	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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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4011		NE		LWLRRM		14864/C		28-08-2015	
12.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)						LPC-II NPP Side (Non guard)			
	i.	Bogie No.	156333						156552			
	ii.	Frame No.	ECBT-953						SCI/FM-185-			
	iii.	Bolster No.	4898-VT						4872-P			
	iv.	Axle No.	128957/986			128937/986			126808/468		127841/987	
	v.	Wheel Dia.	917.00	917.00	918.00	918.00	916.50	916.50	917.00	917.00		
	vi.	Wheel Disc No.	5197-00128	6232-00196	6148-00124	6232-00068	6196-00143	6243-00054	6232-00045	06197-00166		
	vii.	R.B. Nos.	04045	03535	03499	03312	03778	03658	03732	04177		
	viii.	R.B. Make	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	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-13-5-050	G-13-5-112	G-13-5-105	G-13-5-032	G-14-5-098	G-12-9-162	G-14-5-092	G12-9-123			
ii.	Ht. attest load	510	467	512	468	511	470	512	470			
iii.	Align .deviation	14	12	16	13	18	11	18	12			
12.3	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			G-15-03			G-15-03			GF	
	iii.	Primary Damper			1623,1717,1670,1718			1743,1660,1549,1396			GEREP	
	iv.	Secondary damper			1175,546			1273,1158			GEREP	
	v.	Lateral Damper			515			545			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			142025/2000,125187/2000 142001/2000,142043/2000			142005/2000,142041/2000 142016/200,142036/2000			FTI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									GMT,MGN	
	x.	Lateral Bump stop									GMT,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									TESPAK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA, EMSON	
12.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

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