



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5014	DISPATCH DATE				14.07.2015
2.	Railway	SWR	Type	LWSCN1	Coach No.	15260	
3.	Booked to		SSE/C&W/SBC				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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	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	88/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i	BRAKE EQUIPMENT	FAIVELEY				
	ii	SEAT & BERTH	SAVITRI				
	iii	BODY SIDE DOORS	JBM				
	iv	WATER TANKS	SHIVALIK, E C BLADES				
	v	FLOOR BOARD	TAYAL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	ELASTOMER				
	viii	VESTIBULE SLIDING DOOR	KALSI				
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	
			5014		SWR		LGS		15260		12-06-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156418						156390			
	ii.	Frame No.	FIAT-4101						ECBT-935			
	iii.	Bolster No.	4777-P						4692-VT			
	iv.	Axle No.	C-4755			C-4239			A-2963		A-3236	
	v.	Wheel Dia.	915.00	915.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	008-63307	264-63351	361-63302	111-63302	340-63301	033-10510	317-63305	114-63305		
	vii.	R.B. Nos.	03696	04309	03963	04028	01071	01790	04704	04625		
	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-14-05-835	DN-14-2-449	DN-14-05-825	DN-14-2-426	DN-14-03-699	DN-14-02-417	DN-14-03-700	DN-14-02-320			
ii.	Ht. at test load	515	469	515	468	513	470	513	468			
iii.	Align .deviation	10	9	10	10	12	7	13	9			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			G-14-03		G-14-01		GF			
	ii.	Primary inner Spring			G-13-11		G-13-11		GF			
	iii.	Primary Damper			24750,24507,24392,24481		24447,24438,24582,24407		KONI			
	iv.	Secondary damper			1251,1021		920,1252		GEREP			
	v.	Lateral Damper			441		478		GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			D-15032/600,E15013/600 D15039/600,E15002/600		E15092/600,E15078/600, E15090/600,E15086/600		FTI			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							MGN			
	x.	Lateral Bump stop							MGN,GMT			
	xi.	Traction center make							SARITA			
	xii.	Traction lever make							SARITA			
	xiii.	Ball joint traction lever							GMT			
	xiv.	Traction centre elastic							SGA,MGN			
	xv.	Secondary rubber pad							TESPAK			
	xvi.	Rubber spring							BATEGU,GMT			
	xvii.	Anti roll bar make							EMSON			
	xviii.	Ball joint roll link							SARITA			
	xix.	Fork make							EMSON,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.	4058	DISPATCH DATE				14.07.2015
2.	Railway	SWR	Type	LWSCN1	Coach No.	15261	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach	41.239 T					
5.	Carrying Capacity	Seating	80	Sleeping	80	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	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	86/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i	BRAKE EQUIPMENT		FAIVELEY			
	ii	SEAT & BERTH		SAVITRI			
	iii	BODY SIDE DOORS		JBM			
	iv	WATER TANKS		E C BLADES, SHIVALIK			
	v	FLOOR BOARD		TAYAL			
	vi	PVC FLOORING		RESPONSIVE			
	vii	UIC VESTIBULE		ELASTOMER			
	viii	VESTIBULE SLIDING DOOR		KALSI			
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	
			4058		SWR		LSCN		15261		12-06-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156395						156398			
	ii.	Frame No.	FIAT-4043						FIAT-3935			
	iii.	Bolster No.	4660-P						4683-VT			
	iv.	Axle No.	B-9690			E-96596			128084/984		127837/987	
	v.	Wheel Dia.	915.00	915.00	916.00	916.00	915.00	915.00	915.00	915.00	915.00	915.00
	vi.	Wheel Disc No.	173-11600	200-63309	318-63307	151-10583	239-63307	0051-63309	307-63302	008-63309		
	vii.	R.B. Nos.	03810	04084	03972	03642	02306	02730	01861	02131		
	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-14-02-453	DN-14-02-445	DN-14-03-773	DN-15-03-498	DN-13-11-299	DN-14-01-412	DN-13-11-33	DN-14-01-431			
ii.	Ht. at test load	512	469	514	469	516	470	514	468			
iii.	Align .deviation	7	11	10	11	9	10	10	11			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-14-3			G-14-3			GF	
	ii.	Primary inner Spring			G-13-11			G-13-11			GF	
	iii.	Primary Damper			24775,24443,24460,24439			24554,24595,24455,24538			KONI	
	iv.	Secondary damper			1227,1223			1212,1211			GEREP	
	v.	Lateral Damper			2901			4683			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			E15055/600,E15064/600, E15048/600,E15071/600			E15058/600,E15057/600, E15047/600,E15067/600			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,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									SARITA	
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.	5013	DISPATCH DATE				14.07.2015
2.	Railway	SWR	Type	LWSCN1	Coach No.	15257	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach	41.239 T					
5.	Carrying Capacity	Seating	80	Sleeping	80	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	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	85/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i	BRAKE EQUIPMENT		FAIVELEY			
	ii	SEAT & BERTH		SAVITRI			
	iii	BODY SIDE DOORS		JBM			
	iv	WATER TANKS		E C BLADES, SHIVALIK			
	v	FLOOR BOARD		TAYAL			
	vi	PVC FLOORING		RESPONSIVE			
	vii	UIC VESTIBULE		FRIKMART			
	viii	VESTIBULE SLIDING DOOR		KALSI			
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	
			5013		SWR		LWSCN		15257		13-06-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156415						156417			
	ii.	Frame No.	FIAT-4021						FIAT-4092			
	iii.	Bolster No.	4728-ECBT						4775-P			
	iv.	Axle No.	126822/468			B-9630			126461/481		C-0082	
	v.	Wheel Dia.	915.00	915.00	915.00	915.00	915.00	915.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	074-63309	193-63305	146-10570	039-63301	198-63307	267-63309	251-10559	199-10582	10559	10582
	vii.	R.B. Nos.	01948	02748	02359	03780	04151	04239	04847	01885	04847	01885
	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-14-02-573	DN-1403-469	DN-14-01-587	DN-14-03-447	DN-14-05-795	DN-14-01-432	DN-14-05-801	DN-14-01-226			
ii.	Ht. at test load	516	468	516	471	513	469	515	472			
iii.	Align .deviation	13	13	10	8	13	11	16	16			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-14-3			G-14-3			GF	
	ii.	Primary inner Spring			G-14-3			G-14-3			GF	
	iii.	Primary Damper			24456,24418,24478,24426			24389,24567,24406,24550			KONI	
	iv.	Secondary damper			1234,1246			1253,3905			GEREP	
	v.	Lateral Damper			2790			2868			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			E-15011/600,E15033/600 E15003/600,E15002/600			E15016/600,E15026/600 E15012/600,E15024/600			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									MGN	
	xiv.	Traction centre elastic									GMT,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									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.	5002	DISPATCH DATE				14.07.2015
2.	Railway	SWR	Type	LWSCN1	Coach No.	15259	
3.	Booked to		SSE/C&W/SBC				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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	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	86/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i	BRAKE EQUIPMENT	KBI				
	ii	SEAT & BERTH	SAVITRI				
	iii	BODY SIDE DOORS	JBM				
	iv	WATER TANKS	SHIVALIK, E C BLADES				
	v	FLOOR BOARD	TAYAL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	ELASTOMER				
	viii	VESTIBULE SLIDING DOOR	KALSI				
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	
			5002		SW		LWSCN		15259/C		13-06-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156399						156400			
	ii.	Frame No.	FIAT-3975						FIAT-3955			
	iii.	Bolster No.	4709-VT						4590-P			
	iv.	Axle No.	126088/475		C4565		C-4247		C-4068			
	v.	Wheel Dia.	916.50	916.00	915.00	915.00	915.00	915.00	916.00	916.00		
	vi.	Wheel Disc No.	256-10568	336-63307	193-63307	289-10568	098-10582	214-63307	351-10568	144-63301		
	vii.	R.B. Nos.	04003	04383	04334	04207	04019	04228	04609	03667		
	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-14-01-324	DN-14-02-377	DN-14-01-300	DN-14-03-410	DN-14-01-459	DN-14-01-207	DN-14-01-484	DN-14-02-NIL			
ii.	Ht. at test load	516	468	516	471	515	472	515	472			
iii.	Align .deviation	8	6	8	6	8	10	8	9			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-14-3			G-14-3			GF	
	ii.	Primary inner Spring			G-14-12			G-14-12			GF	
	iii.	Primary Damper			1653,2414,1629,1891			1833,2411,2543,2519			GEREP	
	iv.	Secondary damper			341,58			250,450			GEREP	
	v.	Lateral Damper			2874			3031			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1077/691,1103/691,1076/691,1104/691			1075/691,1122/691,1074/691,1101/691			KBI	
	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									MGN	
	xiv.	Traction centre elastic									MGN	
	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				

LSCN-5002