



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			28.04.2016	
2.	Railway	NR	Type	LWFAC	Coach No.	163003	
3.	Booked to			SSE/C&W/NDLS			
4.	Tare Weight of Coach			43.6 T			
5.	Carrying Capacity	Seating	24	Sleeping	24	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		1104	1104	
v)	Buffer/CBC (Make )		FAIVELEY		Fiba Device	NIL	
7.	Air Brake Testing:			Description		Specified	Observed
7.1	Full Brake Application		Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>		6 –10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00	
			All Brake are applied		OK	OK	
7.2	Insensitivity		Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK	
7.3	Sensitivity		Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:			TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE	
8.1	PAINT			PU PAINT	NEROLAC	79/82	
8.2	APPLICATION OF PCN-123			SATISFACTORY			
8.3	INSUALTION			SATISFACTORY			
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT					KBI	
ii.	CDTS/ BIO TOILET					VIBHU	
iii.	SEATS/ BERTHS					AAR KAY FOAMS	
iv.	BODY SIDE DOOR					JBM	
v.	VESTIBULE SLIDING DOOR					KALSI	
vi.	SALOON DOOR					JBM	
vii.	WATER TANKS					KUTEER, MANOJ	
viii.	UIC VESTIBULE					ESCORTS	
ix	FLOOR BOARD					NARBADA	
x	PVC FLOORING					RESPONSIVE	
10.							
i	Modification / Trail (if any):					NIL	
ii	Deviations if any:					NIL	



11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			5014		NR		LWFAC		163003		10-12-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156937						156936			
	ii.	<b>Frame No.</b>	FIAT-4449						FIAT-4370			
	iii.	<b>Bolster No.</b>	4516-GT						5240-P			
	iv.	<b>Axle No.</b>	125744/473			114752/376			129193/992		129676/986	
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.50	916.00	915.50	916.00	916.00	916.00	916.00	
	vi.	<b>Wheel Disc No.</b>	6228-00027	06228-00107	6228-00043	6228-00142	6228-00078	7172-00021	6228-00184	6228-00056		
	vii.	<b>R.B. Nos.</b>	01828	01534	01259	02833	01542	01885	02380	02652		
	viii.	<b>R.B. Make</b>	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
	<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>			
			<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>		
i.	<b>Make &amp; nos.</b>		CMAFJ-15-5-22	G-12-8-3236	CMAFJ-15-5-21	G-12-8-3317	CMAFJ-15-5-11	G-12-8-3633	CMAFJ-15-5-NIL	G-12-8-3238		
ii.	<b>Ht. at test load</b>		512	467	512	465	507	467	508	467		
iii.	<b>Align .deviation</b>		10	23	13	26	10	10	10	6		
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			RSK-14-5			RSK-14-5			RSK	
	ii.	Primary inner Spring			RSK-14-5			RSK-14-5			RSK	
	iii.	Primary Damper			749,942,896,697			683,946,537,602			GEREP	
	iv.	Secondary damper			4441,4526			4333,4213			KONI	
	v.	Lateral Damper			327			15			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1837/691,1898/691,1836/691,1901/691			1853/691,1916/691,1864/691,1917/691			KBI	
	viii.	Brake Disc									FTI	
	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.	<b>Modification / Trial (if any):</b>						NIL				
	ii.	<b>Deviations (if any):</b>						NIL				



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5015	DISPATCH DATE				12.04.2016
2.	Railway	NR	Type	LWFAC	Coach No.	163004	
3.	Booked to		SSE/C&W/NDLS				
4.	Tare Weight of Coach		43.6 T				
5.	Carrying Capacity	Seating	24	Sleeping	24	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	1100	
v)	Buffer/CBC (Make )		FAIVELEY		Fiba Device	NIL	
7.	Air Brake Testing:		Description		Specified	Observed	
7.1	Full Brake Application		Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>		6 –10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00	
			All Brake are applied		OK	OK	
7.2	Insensitivity		Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK	
7.3	Sensitivity		Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT		MAKE	AVERAGE GLOSS VALUE	
8.1	PAINT		PU PAINT		APEX	87/88	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
i.	BRAKE EQUIPMENT				FAIVELEY		
ii.	CDTS/ BIO TOILET				AIR FLOW		
iii.	SEATS/ BERTHS				AAR KAY FOAMS		
iv.	BODY SIDE DOOR				JBM		
v.	VESTIBULE SLIDING DOOR				KALSI		
vi.	SALOON DOOR				JBM		
vii.	WATER TANKS				SHIVALIK		
viii.	UIC VESTIBULE				KRP		
ix	FLOOR BOARD				NARBADA		
x	PVC FLOORING				RESPONSIVE		
10.							
i	Modification / Trail (if any):				NIL		
ii	Deviations if any:				NIL		



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			5015		NR		LWFAC		163004		17-03-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	166271						166272			
	ii.	<b>Frame No.</b>	FIAT-4692						FIAT-4677			
	iii.	<b>Bolster No.</b>	126/ASR/VTC						5595-P			
	iv.	<b>Axle No.</b>	K-3381			K-3935			126732/468		127033/476	
	v.	<b>Wheel Dia.</b>	915.00	915.00	916.50	917.00	917.00	917.00	917.00	917.00	917.00	
	vi.	<b>Wheel Disc No.</b>	6227-00160	06230-00131	06223-00091	6229-00193	7282-00029	06229-00151	7282-00041	06229-00170		
	vii.	<b>R.B. Nos.</b>	03601	04499	02870	03126	22906	06695	22905	06675		
	viii.	<b>R.B. Make</b>	TIMKEN			TIMKEN			SKF		SKF	
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	DN-12-8-1713	RSK-15-9-299	DN-12-8-1768	RSK-15-9-056	DN-12-8-1917	RSK-15-9-226	DN-12-8-1917	RSK-15-9-220			
ii.	<b>Ht. at test load</b>	510	467	510	468	506	466	506	466			
iii.	<b>Align .deviation</b>	14	50	13	47	18	43	18	44			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			RSK-13-2			RSK-13-2			RSK	
	ii.	Primary inner Spring			RSK-11-11			RSK-11-11			RSK	
	iii.	Primary Damper			1897,2166,1968,1856			143,431,921,462			GEREP	
	iv.	Secondary damper			0152,0091			1,185			KNORR,GEREP	
	v.	Lateral Damper			3361			3726			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			M15024/600,M15056/600 M15023/600,M15091/600			M15091/600,M15113/600 M15089/600,M15114/600			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				

LWFAC-5015