



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5041	DISPATCH DATE				24.5.2016
2.	Railway	WR	Type	LWACCW	Coach No.	16052	
3.	Booked to			SSE/C&W/bct			
4.	Tare Weight of Coach			52			
5.	Carrying Capacity	Seating	52	Sleeping	52	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	1102	1102		
	v)	Buffer/CBC (Make)	FAVELLY	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 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	86/85		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT		FAVELLY			
	ii.	CDTS/ BIO TOILET		RAIL FAB			
	iii.	SEATS/ BERTHS		AMIR CHAND			
	iv.	BODY SIDE DOOR		JBM			
	v.	VESTIBULE SLIDING DOOR		KALSI			
	vi.	COMPTT.DOOR		RAIL TECH			
	vii.	WATER TANKS		SHIVALIK,MANOJ			
	viii.	UIC VESTIBULE		KRP			
	ix	FLOOR BOARD		TAYAL			
	X	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	
			5041		WR		LWACCW		16052		25-02-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166171					166172				
	ii.	Frame No.	FIAT-4673					FIAT-4270				
	iii.	Bolster No.	5032-VT					5507-P				
	iv.	Axle No.	128195/984		K-3284			K-2920		K-3434		
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	6206-00070	06229-00194	06229-00157	7290-00196	06230-00034	06229-00088	06227-00029	06229-00171		
	vii.	R.B. Nos.	03479	02437	03388	03920	04041	04625	03900	05258		
	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.	RSK-15-3-438	RSK-15-9-164	RSK-15-3-347	RSK-15-9-043	RSK-15-3-310	RSK-15-9-125	RSK-15-3-302	RSK-15-9-123			
ii.	Ht. at test load	508	465	508	465	512	466	512	467			
iii.	Align .deviation	11	41	14	43	12	40	15	40			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	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			2188,1394,2132,2345			2144,2333,2297,2121			GEREP	
	iv.	Secondary damper			385,226			312,275			GEREP	
	v.	Lateral Damper			3357			3765			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			L15096/600,L15122/600 L15084/600,L15065/600			L15097/600,L15120/600 H15090/600,H15068/600			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				

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5037	DISPATCH DATE				19.5.2016
2.	Railway	WR	Type	LWACCW	Coach No.	16051	
3.	Booked to		SSE/C&W/bct				
4.	Tare Weight of Coach		52				
5.	Carrying Capacity	Seating	52	Sleeping	52	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	1100	1100		
	v)	Buffer/CBC (Make)	ESCORTS	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 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	GS	86/87		
	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			RAIL FAB		
	iii.	SEATS/ BERTHS			AMIR CHAND		
	iv.	BODY SIDE DOOR			JBM		
	v.	VESTIBULE SLIDING DOOR			KALSI		
	vi.	COMPTT.DOOR			RAIL TECH		
	vii.	WATER TANKS			SHIVALIK,MANOJ		
	viii.	UIC VESTIBULE			KRP		
	ix	FLOOR BOARD			TAYAL		
	X	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	
			5037		WR		LWACCW		16051/C		06-02-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166107						166108			
	ii.	Frame No.	FIAT-4616						FIAT-4617			
	iii.	Bolster No.	5481-P						5347-P			
	iv.	Axle No.	128000/988		128459/983		127920/983		127906/987			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	915.50	916.00		
	vi.	Wheel Disc No.	06156-00060	6229-00203	6206-00023	6229-00218	6228-00093	7172-00202	06234-00022	6210-00130		
	vii.	R.B. Nos.	01597	04842	04914	01376	29608	02689	01854	02224		
	viii.	R.B. Make	TIMKEN		TIMKEN		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.	RSK-14-8-142	RSK-15-10-317	RSK-14-8-82	RSK-15-10-345	RSK-14-8-83	RSK-15-10-243	RSK-14-8-004	RSK-15-10-255			
ii.	Ht. at test load	510	466	511	466	512	467	512	467			
iii.	Align .deviation	17	33	19	40	12	43	13	47			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	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			1129,1518,1514,1012			1540,1513,1537,1318			GEREP	
	iv.	Secondary damper			4622,4630			4359,4365			KONI	
	v.	Lateral Damper			615			10			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			2051/691,2128/691 2050/691,2127/691			2020/691,2087/691 2021/691,2086/691			KBI	
	viii.	Brake Disc									KBI,FTI	
	ix.	Ball joint Control arm									GMT	
	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									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				

LWACCW 5037

