



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5081	DISPATCH DATE			21.5.2016	
2.	Railway	NR	Type	LWACCN	Coach No.	163923	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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)		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		3.80 ± 0.15 Kg/cm ²	3.80	
			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	85/88	
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					OVPL	
iv.	BODY SIDE DOOR					NEERA & JBM	
v.	VESTIBULE SLIDING DOOR					KALSI	
vii.	WATER TANKS					MANOJ, SHIVALIK	
viii.	UIC VESTIBULE					KRP/ESCORT	
ix	FLOOR BOARD					TAYAL	
X	PVC					RESPONSIVE	
10.							
10.1	Modification / Trail (if any):				FITTED WITH BIO DIGESTER OF M/s RAIL FAB		
10.2	Deviations if any:				NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5081		NR		LACCN		163923/C		22-03-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166072					166073				
	ii.	Frame No.	FIAT-4578					FIAT-4558				
	iii.	Bolster No.	5474-P					5457-P				
	iv.	Axle No.	F-9011		128889/990			116204/377		K-3347		
	v.	Wheel Dia.	917.00	917.00	916.50	916.00	916.00	915.50	917.00	917.00		
	vi.	Wheel Disc No.	6229-00188	7290-00022	7290-00051	7290-00110	6223-00217	6227-00124	06229-00212	7290-00017		
	vii.	R.B. Nos.	30252	38832	34077	02617	21924	05279	22909	29535		
	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.	G-15-9-228	RSK-15-10-580	G-15-9-258	RSK-15-10-331	G-15-9-251	RSK-15-10-339	G-15-9-256	RSK-15-10-272			
ii.	Ht. at test load	514	466	514	468	514	464	514	462			
iii.	Align .deviation	14	38	14	41	14	43	15	42			
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			G-15-9			G-15-9			GF	
	iii.	Primary Damper			991,1051,914,985			1007,1052,1280,1068			GEREP	
	iv.	Secondary damper			1013,1252			1220,1260			GEREP	
	v.	Lateral Damper			03340			3720			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			2001/691,2064/691 1999/691,2263/691			2001/691,2090/691 2062/691,2030/691			KBI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									EMSON, SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									SGA	
	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.	5083	DISPATCH DATE				21.5.2016
2.	Railway	NR	Type	LWACCN	Coach No.	163921	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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)	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		3.80 ± 0.15 Kg/cm ²	3.80	
			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	85/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT				KBI	
	ii.	BIO TOILET				RAIL FAB	
	iii.	SEATS/ BERTHS				OVPL	
	iv.	BODY SIDE DOOR				JBM	
	v.	VESTIBULE SLIDING DOOR				KALSI	
	vii.	WATER TANKS				SHIVALIK	
	viii.	UIC VESTIBULE				ESCORT	
	ix	FLOOR BOARD				TAYAL	
	X	PVC				RESPONSIVE/POLYMER	
	XI	LP SHEET				HINDOSTAN	
10.							
	10.1	Modification / Trail (if any):			FITTED WITH BIO DIGESTER OF M/s RAIL FAB		
	10.2	Deviations if any:			NIL		



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5083	NR	LACCN	163921/C	22-03-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166079				166074			
	ii.	Frame No.	FIAT-4574				FIAT-4170			
	iii.	Bolster No.	5292-P				5280-P			
	iv.	Axle No.	K-2722		K-3073		K-3063		K-3044	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	06150-00037	6206-00177	06150-00056	6227-00099	06206-00108	06229-00197	6226-00095	06229-00124
	vii.	R.B. Nos.	02478	04449	03574	02632	02313	02884	02266	03042
	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.	G-15-9-270	RSK-15-9-246	G-15-9-187	RSK-15-9-242	G-15-9-234	RSK-15-9-335	G-15-9-244	RSK-15-9-348	
ii.	Ht. at test load	514	468	514	467	512	464	512	465	
iii.	Align .deviation	14	37	13	36	16	39	15	38	
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		GBD-15-11		GBD-15-11		GBD		
	iii.	Primary Damper		1054,1005,1004,922		1023,984,994,1041		GEREP		
	iv.	Secondary damper		511,1250		987,1011		GEREP		
	v.	Lateral Damper		3568		3292		KONI		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper		2029/691,2078/691 2027/691,2079/691		2028/691,2076/691 2026/691,2080/691		KBI		
	viii.	Brake Disc						KBI		
	ix.	Ball joint Control arm						MGN		
	x.	Lateral Bump stop						MGN		
	xi.	Traction center make						EMSON, 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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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5078	DISPATCH DATE				21.5.2016
2.	Railway	NR	Type	LWACCN	Coach No.	163922	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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)	escort	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	3.80 ± 0.15 Kg/cm ²	3.80		
			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				OVPL	
	iv.	BODY SIDE DOOR				JBM	
	v.	VESTIBULE SLIDING DOOR				KALSI	
	vii.	WATER TANKS				SHIVALIK	
	viii.	UIC VESTIBULE				ESCORT	
	ix	FLOOR BOARD				TAYAL	
	X	PVC				RESPONSIVE	
10.							
	10.1	Modification / Trail (if any):					
	10.2	Deviations if any:					NIL



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5078		NR		LWACCN		163922/C		22-03-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166067						166066			
	ii.	Frame No.	FIAT-4481						FIAT-4626			
	iii.	Bolster No.	5341-P						5434-VT			
	iv.	Axle No.	K-2793		128256/991		K-3504		K-3023			
	v.	Wheel Dia.	916.50	916.50	915.50	915.00	916.00	916.00	915.50	915.00		
	vi.	Wheel Disc No.	06229-00008	6226-00083	6206-00133	7290-00028	6226-00088	7222-00033	6226-00071	7222-00029		
	vii.	R.B. Nos.	02968	03160	02591	02231	03990	04034	04031	02722		
	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.	GBD-15-8-4	RSK-15-3-253	GBD-15-8-71	RSK-15-3-391	FSK-15-9-7	RSK-15-3-342	FSK-15-9-32	RSK-15-3-262			
ii.	Ht. at test load	515	468	517	466	515	465	515	467			
iii.	Align .deviation	9	36	7	35	8	33	10	35			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-13-2			RSK-13-2			RSK	
	ii.	Primary inner Spring			G-15-3			G-15-3			GF	
	iii.	Primary Damper			1029,1021,1036,1040			1033,1032,1065,1050			GEREP	
	iv.	Secondary damper			1288,978			513,967			GEREP	
	v.	Lateral Damper			3214			3450			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			2012/691,2077/691 2014/691,2074/691			2003/691,2072/691 2002/691,2069/691			KBI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									EMSON, 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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