



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5057	DISPATCH DATE				17.11.2015
2.	Railway	WR	Type	LWACCN	Coach No.	15134	
3.	Booked to	SSE/C&W/BCT/M					
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	1102	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 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	APEX	85/87		
	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			AIR FLOW		
	iii.	SEATS/ BERTHS			SAVITRI		
	iv.	BODY SIDE DOOR			JBM, SUKATA		
	v.	VESTIBULE SLIDING DOOR			HP		
	vi.	SALOON DOOR			NA		
	vii.	WATER TANKS			KUTEER, SHIVALIK		
	viii.	UIC VESTIBULE			ESCORTS		
	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			
			5057	WR	LACCN	15134/C	31-10-2015			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156744				156812			
	ii.	Frame No.	ECBT-904				ECBT-993			
	iii.	Bolster No.	4991-VT				4522-GT			
	iv.	Axle No.	128248/199	128515/988	114726/376	126743/468				
	v.	Wheel Dia.	915.00	915.00	915.00	915.00	915.00	915.00	915.00	915.00
	vi.	Wheel Disc No.	7172-00099	6207-00099	6202-00099	6222-00111	6207-00140	6228-00025	6228-00196	6207-00068
	vii.	R.B. Nos.	03973	31043	38531	05821	38581	03128	06914	03094
	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-15-4-13	DN-12-6-1522	G-15-4-006	DN-11-8-131	CMGBD-15-8-22	G-12-8-3655	CMGBD-15-8-23	G-12-8-3541	
ii.	Ht. at test load	513	458	513	459	515	468	515	468	
iii.	Align .deviation	15	8	15	8	9	21	7	19	
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	G-15-3		G-15-3		GF			
	iii.	Primary Damper	25778,25646,26115,25625		25882,25890,25909,26051		KONI			
	iv.	Secondary damper	426,1562		606,467		GEREP			
	v.	Lateral Damper	276		210		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	1328/691,1376/691,1329/691,1365/691		1383/691,1453/691,1385/691,1454/691		KBI			
	viii.	Brake Disc					KBI,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					SARITA,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.	5061	DISPATCH DATE			16.11.2015	
2.	Railway	WR	Type	LWACCN	Coach No.	15133	
3.	Booked to	SSE/C&W/BCT/M					
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)	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	3.80 ± 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	APEX	89/87		
	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	AIR FLOW				
	iii.	SEATS/ BERTHS	ADVANCE				
	iv.	BODY SIDE DOOR	SUKATA & JBM				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	SALOON DOOR	KALSI				
	vii.	WATER TANKS	E C BLADES & SHIVALIK				
	viii.	UIC VESTIBULE	SUNCREAST				
	ix	FLOOR BOARD	NARBADA				
	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			
			5061	WR	LACCN	15133/C	30-10-2015			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156810				156811			
	ii.	Frame No.	FIAT-4417				FIAT-4347			
	iii.	Bolster No.	5197-P				5203-P			
	iv.	Axle No.	128246/991	126463/481	128842/990	128518/983				
	v.	Wheel Dia.	915.00	915.00	915.00	915.00	917.00	917.00	915.00	915.00
	vi.	Wheel Disc No.	6228-00049	7150-00010	6202-00013	6202-00129	06232-00081	6219-00026	6192-00205	6228-00085
	vii.	R.B. Nos.	39209	03113	39199	39203	05693	06833	05698	38799
	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.	BPS-2015-5	G—8-3575	BPS-2015-1	G—5-5039	CMGBD-15-8-5	G-12-8-3575	CMGBD-15-8-1	G-12-8-5039	
ii.	Ht. at test load	505	466	512	466	514	466	515	466	
iii.	Align .deviation	5.5	17	6	17	10	8	11	10	
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	G-15-3		G-15-3		GF			
	iii.	Primary Damper	26127,26056,26052,26053		25883,25911,25904,26045		KONI			
	iv.	Secondary damper	528,1318		1399,1601		GEREP			
	v.	Lateral Damper	320		503		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	1316/691,1401/691,1317/691,1400/691		1807/691,1847/691,1809/691,1846/691		KBI			
	viii.	Brake Disc					FTI,KBI			
	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.	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.	5056	DISPATCH DATE				13.11.2015
2.	Railway	WR	Type	LWACCN	Coach No.	15132	
3.	Booked to	SSE/C&W/BCT/M					
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	1102	1104		
	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	3.80 ± 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	APEX	85/87		
	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			AIR FLOW		
	iii.	SEATS/ BERTHS			ADVANCE		
	iv.	BODY SIDE DOOR			JBM		
	v.	VESTIBULE SLIDING DOOR			KALSI		
	vi.	SALOON DOOR			KALSI		
	vii.	WATER TANKS			E C BLADES, MANOJ, SHIVALIK		
	viii.	UIC VESTIBULE			ESCORTS		
	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	
			5056		WR		LACCN		15132		30-10-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156743						156813			
	ii.	Frame No.	FIAT-3154						VS-13			
	iii.	Bolster No.	5154-VT						ECBT-47			
	iv.	Axle No.	128415/983		128437/983		128607/989		114780/376			
	v.	Wheel Dia.	916.00	916.00	915.00	915.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	6222-00082	6202-00217	6213-00181	6219-00052	6211-00191	766-00020	6222-00137	7150/00106		
	vii.	R.B. Nos.	05736	05690	34061	30411	06052	03665	34974	03662		
	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-14-5-067	DN-12-06-1558	G-14-5-061	DN-12-06-1492	CMGBD-15-8-31	G-12-6-3545	CMGBD-15-8-44	G-12-8-3620			
ii.	Ht. at test load	512	464	512	466	515	465	514	465			
iii.	Align .deviation	20	3	18	2	10	9	11	10			
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			G-15-3			G-15-3			GF	
	iii.	Primary Damper			26103,25869,25910,25863			25932,25881,25876,26048			KONI	
	iv.	Secondary damper			1468,1352			1431,1308			GEREP	
	v.	Lateral Damper			315			137			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1157/691,1193/691,1156/691,1195/691			1798/691,1869/691,1799/691,1870/691			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									SARITA	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

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