



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5032	DISPATCH DATE			21.10.2015
2.	Railway	CR	Type	LWLRRM	Coach No.	14855
3.	Booked to	SSE/C&W/CST/M				
4.	Tare Weight of Coach	53.4 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage
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	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	GS	85	
	8.2	APPLICATION OF PCN-123	SATISFACTORY			
	8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:				Make	
	i.	BRAKE EQUIPMENT			FAIVELEY	
	iii.	CDTS			AIR FLOW	
	iv.	SEATS/S&B			GANDHI	
	v.	BODY SIDE DOOR			JBM	
	vi.	VESTIBULE SLIDING DOOR			KALSI	
	vii.	CREW-GEN & GUARD ROOM DOOR			CP/CP	
	viii.	WATER TANKS			E CBLADES & SHIVALIK	
	ix	FUEL TANK			GAURAV	
	x	UIC VESTIBULE			FRIKMART	
	XI	FLOOR BOARD			TAYAL	
	XII	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			
			5032	CR	LWLRRM	14855/C	10-09-2015			
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	156593				156592			
	ii.	Frame No.	FIAT-3942				FIAT-3998			
	iii.	Bolster No.	4934-VT				4905-VT			
	iv.	Axle No.	128492/983		128455/983		128646/989		125932/479	
	v.	Wheel Dia.	918.00	918.00	917.50	917.00	917.00	917.50	917.00	917.00
	vi.	Wheel Disc No.	06191/00186	6229/0088	6232/00158	6232/00124	06232-00051	06229-00052	6149-00221	06149-00181
	vii.	R.B. Nos.	30007	29535	01198	01189	01188	21545	29746	29981
	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.	DN-13-01-310	DN-12-2-271	DN-13-2-315	DN-12-2-304	G-15-4031	G-15-4-031	G-15-4-047	G-12-9-372	
ii.	Ht. at test load	509	462	508	467	514	469	514	468	
iii.	Align .deviation	7	3	7	2	16	9	15	9	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			YR-13-11		YR-13-11		YR	
	ii.	Primary inner Spring			FSK-12-12		FSK-14-05		FSK	
	iii.	Primary Damper			26815,26350,26323,26326		26316,26801,26339,26949		KONI	
	iv.	Secondary damper			5127,4982		5252,5171		KONI	
	v.	Lateral Damper			NIL		499		GEREP	
	vi.	Yaw Damper			NIL		NIL		NIL	
	vii.	Brake cylinder & Caliper			142007/2000,142046/2000 142009/2000,122053/2000		142003/2000,142039/2000 142008/2000,142042/2000		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							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							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.	5007	DISPATCH DATE			02.11.2015
2.	Railway	CR	Type	LWLRRM	Coach No.	14856
3.	Booked to	SSE/C&W/CST/M				
4.	Tare Weight of Coach	53.4 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage
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 (LWACCV, LS, LWSCN), 4366 (LWSCZDAC)			
	iv)	Buffer/CBC Height	Specified : 1105 +0/-15 mm	1105	1103	
	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	GS	87	
	8.2	APPLICATION OF PCN-123	SATISFACTORY			
	8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:				Make	
	i.	BRAKE EQUIPMENT			FAIVELEY	
	iii.	CDTS			AIR FLOW	
	iv.	SEATS/S&B			GANDHI	
	v.	BODY SIDE DOOR			JBM	
	vi.	VESTIBULE SLIDING DOOR			KALSI	
	vii.	CREW-GEN & GUARD ROOM DOOR			CP/CP	
	viii.	WATER TANKS			E CBLADES & SHIVALIK	
	ix	FUEL TANK			GAURAV	
	x	UIC VESTIBULE			ESCORTS	
	XI	FLOOR BOARD			TAYAL/NARBADA	
	XII	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	
			5007		CR		LWLRRM		14856		19-09-2015	
11.1	Wheel & Axle Details:		LPC-I PP Side(Guard)						LPC-II NPP Side (Non guard)			
	i.	Bogie No.	156667						156666			
	ii.	Frame No.	FIAT-4146						FIAT-4248			
	iii.	Bolster No.	5057-GT						5049-GT			
	iv.	Axle No.	128109/981		126650/980		126638/480		127793/987			
	v.	Wheel Dia.	916.50	916.00	915.00	915.00	915.50	916.00	916.50	917.00		
	vi.	Wheel Disc No.	6232-00171	6148-00085	6229-00150	6229-00094	06149-00062	06149-00132	6229-00099	6232-00160		
	vii.	R.B. Nos.	02686	22170	03297	35344	16019	16045	01383	16014		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<u>Secondary suspension load deflection Values:</u>											
	Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2			
			Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner		
i.	Make & nos.		DN-12-11-300	BPS-2015	DN-12-11-329	BPS-2013	FSK-15-1-17	DN-11-12-280	FSK-15-01-1	DN-12-11-263		
ii.	Ht. at test load		510	464	512	464	511	462	512	464		
iii.	Align .deviation		5	7	7	7	7	9	8	10		
11.3	<u>Items traceability:</u>											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			L&S-13-2			L&S-13-2			L&S	
	ii.	Primary inner Spring			GBD-14-11			GBD-14-11			GBD	
	iii.	Primary Damper			25314,25365,25187,25364			25456,25324,25219,25334			KONI	
	iv.	Secondary damper			5860,5914			5678,5900			KONI	
	v.	Lateral Damper			324			379			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			G15050/2000,G15005/2000,G15040/2000,G15006/2000			G15046/2000,G15035/2000,G150402000,G15050/2000			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									GMT	
	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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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5014	DISPATCH DATE				04.11.2015
2.	Railway	CR	Type	LWLRRM	Coach No.	14854	
3.	Booked to	SSE/C&WCST/M					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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 (LWACCV, LS, LWSCN), 4366 (LWSCZDAC)			
iv)	Buffer/CBC Height		Specified : 1105 +0/-15 mm		1105	1102	
v)	Buffer/CBC (Make)		ESCORTS		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	88	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT			KBI			
iii.	CDTS			AIR FLOW			
iv.	SEATS/S&B			AMR CHAND			
v.	BODY SIDE DOOR			JBM			
vi.	VESTIBULE SLIDING DOOR			KALSI			
vii.	CREW-GEN & GUARD ROOM DOOR			CP/CP			
viii.	WATER TANKS			E CBLADES & SHIVALIK			
ix	FUEL TANK			GAURAV			
x	UIC VESTIBULE			SUNCREAST			
XI	FLOOR BOARD			TAYAL			
XII	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	
			5014		CR		LWLRRM		14854		21-09-2015	
11.1	Wheel & Axle Details:		LPC-I PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	156559					156677				
	ii.	Frame No.	FIAT-3958					FIAT-4296				
	iii.	Bolster No.	4960-VT					5045-GT				
	iv.	Axle No.	128640/989		127043/476		126276/474		128460/983			
	v.	Wheel Dia.	916.00	916.00	915.50	916.00	916.00	916.00	916.00	916.00		
	vi.	Wheel Disc No.	6229-00147	6148-00161	6212-00057	6191-00015	6229-00057	6212-00092	6212-00081	6212-00017		
	vii.	R.B. Nos.	21683	21703	21694	22869	22664	02339	23009	22878		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<u>Secondary suspension load deflection Values:</u>											
	Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2			
			Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner		
i.	Make & nos.		G-13-4-069	G-13-4-098	G-13-4-094	G-13-4-156	CMFSK-15-01-5	DN-10-12-226	CMFSK-15-01-12	DN-10-12-232		
ii.	Ht. at test load		511	466	509	467	515	468	515	470		
iii.	Align .deviation		8	15	10	17	7	7	8	9		
11.3	<u>Items traceability:</u>											
	Sno.	Item	PP Side Bogie				NPP side Bogie				Make	
i.		Primary Outer Spring	L&S-13-2				L&S-13-2				L&S	
ii.		Primary inner Spring	GBD-14-11				GBD-14-11				GBD	
iii.		Primary Damper	778,331,1406,1747				1638,1686,1939,1710				GEREP	
iv.		Secondary damper	1069,1065				986,1095				GEREP	
v.		Lateral Damper	387				367				GEREP	
vi.		Yaw Damper									NIL	
vii.		Brake cylinder & Caliper	J1928/261,J3050/260, J2013/261,J1963/260				J3255/261,J3240/261, J3256/261,J3239/261				KBI	
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									GMT	
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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