



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4057	DISPATCH DATE				12.5.2015	
2.	Railway	NR	Type	LS3	Coach No.		153473	
3.	Booked to	SSE/C&W/NDLS						
4.	Tare Weight of Coach	40.665 T						
5.	Carrying Capacity	Seating	100	Sleeping	NIL	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)	FAVELLY	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	85/87			
	8.2	APPLICATION OF PCN-123	SATISFACTORY					
	8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:					Make		
	I	BRAKE EQUIPMENT				KBI		
	ii	SEAT & BERTH				OVPL		
	lii	BODY SIDE DOORS						
	lv	WATER TANKS				RUBICON,RAILFAB		
	v	FLOOR BOARD				TAYAL		
	VI	PVC				PREMIER		
	Vii	LP SHEET				POLYFILM/RESPONSIVE		
10.								
	10.1	Modification / Trail (if any):				NIL		
	10.2	Deviations if any:				NIL		



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12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4057	NR	LS3	153473	25-04-2015			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156294				156295			
	ii.	Frame No.	FIAT-3907				FIAT-3798			
	iii.	Bolster No.	4677-VT				4665-P			
	iv.	Axle No.	C-4637		126077/475		125898/477		A-3059	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	107-10570	138-10570	024-11611	031-10570	160-63309	260-63301	285-63301	289-10583
	vii.	R.B. Nos.	36317	36301	36638	29621	32011	03033	32210	03074
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
12.2	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-14-01-322	DN-14-02-400	DN-14-01-314	DN-14-02-285	DN-14-01-266	DN-14-02-324	DN-14-01-330	DN-14-02-283	
ii.	Ht. at test load	510	470	510	472	513	472	512	469	
iii.	Align .deviation	11	8	13	8	11	10	13	13	
12.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			14-3		14-3		GF	
	ii.	Primary inner Spring			14-3		14-3		GF	
	iii.	Primary Damper							GEREP	
	iv.	Secondary damper							GEREP	
	v.	Lateral Damper							KONI	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper							KBI	
	viii.	Brake Disc							FTI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							GMT	
	xi.	Traction center make							SARITA	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							GMT	
	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							EMSON	
12.4	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.	4070	DISPATCH DATE				14.05.2015
2.	Railway	NR	Type	LS3	Coach No.	153474	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	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)	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	VIBGYOR	88/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	I	BRAKE EQUIPMENT	FAIVELEY				
	li	SEAT & BERTH	AAR KAY FOAMS				
	lii	BODY SIDE DOORS	JBM, SUKATA				
	lv	WATER TANKS	RAIL FAB				
	v	FLOOR BOARD	TAYAL				
	VI	PVC	RESPONSIVE				
	Vii	LP SHEET	NA				
10.							
	10.1	Modification / Trail (if any):	NIL				
	10.2	Deviations if any:	NIL				



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4070		NR		LS3		153474		13-04-2015	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156303						156302			
	ii.	Frame No.	FIAT-3927						FIAT-3892			
	iii.	Bolster No.	4671-VT						4672-VT			
	iv.	Axle No.	106375/629		129381/982		127752/987		C-4218			
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.50	918.00	917.00	917.00		
	vi.	Wheel Disc No.	273- 10559	248- 10568	068- 10533	375- 16301	205- 10559	058- 10533	095- 10370	258- 10559		
	vii.	R.B. Nos.	04161	04142	04567	04101	02919	04149	03785	04036		
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	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- 06-111	DN-13- 06-166	DN-13- 06-109	DN-13- 06-292	DN-13- 06-106	DN-13- 06-383	DN-13- 06-421	DN-13- 06-280			
ii.	Ht. at test load	513	471	515	468	515	468	516	469			
iii.	Align .deviation	11	10	14	13	14	8	14	11			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			G-13-11		G-13-11		GF			
	ii.	Primary inner Spring			G-14-03		G-14-03		GF			
	iii.	Primary Damper			1528,1588,1597,1339		1175,1543,1200,1552		GEREP			
	iv.	Secondary damper			1054,1121		1175,1129		GEREP			
	v.	Lateral Damper			2971		2817		KONI			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							FTI			
	viii.	Brake Disc							FTI			
	ix.	Ball joint Control arm							MGN			
	x.	Lateral Bump stop							GMT			
	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							EMSON			
12.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

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