



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5022	DISPATCH DATE				24.11.2015
2.	Railway	SER	Type	LWLRRM	Coach No.		148855
3.	Booked to			SSE/C&W/SRC			
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 (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 <sup>2</sup>		6 -10 sec		6 Sec
			Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>		3.00
			All Brake are applied		OK		OK
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application		OK
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply		OK
8.	PAINTING DEATAILS:		TYPE OF PAINT		MAKE	AVERAGE GLOSS VALUE	
	8.1	PAINT	PU PAINT		VIBGYOR	87	
	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			GANDHI		
	v.	BODY SIDE DOOR			JBM, SUKATA		
	vi.	VESTIBULE SLIDING DOOR			HANSPAL		
	vii.	CREW-GEN & GUARD ROOM DOOR			CP/CP		
	viii.	WATER TANKS			SHIVALIK, KUTEER		
	ix	FUEL TANK			GAURAV		
	x	UIC VESTIBULE			SUNCREAST		
	XI	FLOOR BOARD			NARBADA		
	XII	PVC			RESPONSIVE		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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11.	<b>Bogie Details:</b>		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5022		SE		LWLRRM		148855/C		12-09-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		LPC-1 PP Side(Guard )					LPC-II NPP Side (Non guard )				
	i.	Bogie No.	156663					156662				
	ii.	Frame No.	FIAT-4016					FIAT-4258				
	iii.	Bolster No.	5082-GT					5006-VT				
	iv.	Axle No.	128449/983		126048/475		128781/990		129113/992			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	917.00	917.00		
	vi.	Wheel Disc No.	6213-00062	6223-00144	6213-00004	6213-00146	6232-00133	06232-00120	6198-00109	6198-00042		
	vii.	R.B. Nos.	30048	23096	30180	30109	22741	30014	30200	02246		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	DN-12-11-323	G-13-5-096	DN-12-11-303	G-13-5-051	G-15-4-017	DN-12-10-257	G-15-4-027	DN-12-10-254			
ii.	Ht. at test load	507	466	506	465	512	470	513	467			
iii.	Align .deviation	6	16	7	15	13	10	17	12			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>		<b>NPP side Bogie</b>		<b>Make</b>			
	i.	Primary Outer Spring			L&S-13-2		L&S-13-2		L&S			
	ii.	Primary inner Spring			G-15-3		G-15-3		GF			
	iii.	Primary Damper			26640,26405,26311,26774		26831,26876,26906,26805		KONI			
	iv.	Secondary damper			4958,5065		5452,4963		KONI			
	v.	Lateral Damper			70		491		GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			18819/261,18907/260,18820/261,18908/260		18806/261,18809/261,18834/261,18832/261		KBI			
	viii.	Brake Disc							KBI			
	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							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.	5033	DISPATCH DATE				28.11.2015
2.	Railway	SER	Type	LWLRRM	Coach No.		148856
3.	Booked to			SSE/C&W/SRC			
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 (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 <sup>2</sup>		6 –10 sec		6 Sec
			Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>		3.00
			All Brake are applied		OK		OK
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application		OK
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /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	
	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, SUKATA		
	vi.	VESTIBULE SLIDING DOOR			KALSI		
	vii.	CREW-GEN & GUARD ROOM DOOR			CP/JBM		
	viii.	WATER TANKS			SHIVALIK, KUTEER		
	ix	FUEL TANK			GAURAV		
	x	UIC VESTIBULE			ESCORTS		
	XI	FLOOR BOARD			NARBADA		
	XII	PVC			RESPONSIVE		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5033	SE	LWLRRM	148856/C	07-11-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		LPC-I PP Side(Guard )				LPC-II NPP Side (Non guard )			
	i.	Bogie No.	156840				156839			
	ii.	Frame No.	FIAT-4068				BEC-041			
	iii.	Bolster No.	4995/VT				5015-VT			
	iv.	Axle No.	126530/480	127004/476	129062/986	129162/992				
	v.	Wheel Dia.	917.00	917.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	06222-00201	6202-00170	7150-00166	6232-00156	7172-00068	6194-00132	6195-00001	6202-00143
	vii.	R.B. Nos.	34974	30787	22940	34703	03144	05676	02992	05708
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<b>Secondary suspension load deflection Values:</b>									
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	GBD-15-5-32	G-13-5-181	GBD-15-5-23	G-13-5-104	GBD-15-5-8	DN-12-11-291	GBD-15-5-50	DN-12-11-259	
ii.	Ht. at test load	508	467	508.50	466	515	462	514	467	
iii.	Align .deviation	5.70	14	8	16	11	8	12	8	
11.3	<b>Items traceability:</b>									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	FSK-15-3		FSK-15-3		FSK			
	ii.	Primary inner Spring	G-15-3		G-15-3		GF			
	iii.	Primary Damper	25241,25354,26061,25294		26192,25211,25239,25626		KONI			
	iv.	Secondary damper	1298,1137		509,844		GEREP			
	v.	Lateral Damper	141		101		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	141775/2000,141755/2000 14026/2000,125187/2000		142019/2000,142035/2000 141725/2000,141735/2000		FTI			
	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					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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