



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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रोलिंग स्टॉक प्रमाण-पत्र

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6079	DISPATCH DATE			27.04.17
2.	Railway	ECOR	Type	LWLRRM	Coach No.	17851
3.	Booked to	SSE/C&W/PUI				
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	1104	1104		
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.	BIOTOILET	RAIL FAB				
iv.	SEATS/S&B	AMIR CHAND				
v.	BODY SIDE DOOR	JVR				
vi.	VESTIBULE SLIDING DOOR	HP				
vii.	CREW-GEN & GUARD ROOM DOOR	JBM/KALSI				
viii.	WATER TANKS	AMIT & SHIVALIK				
ix	FUEL TANK	GAURAV				
x	UIC VESTIBULE	SSIPL				
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.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6079	ECOR	LWLRRM	17851	23-03-2017			
11.1	Wheel & Axle Details:		Gen.van side 1 hand brake				Gen.van side 2			
	i.	Bogie No.	176262				176261			
	ii.	Frame No.	FIAT-5534				ECBT-021			
	iii.	Bolster No.	6738-P				6783-P			
	iv.	Axle No.	N-0871		F-9152		T-0050		S-9972	
	v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
	vi.	Wheel Dia.	917.50	917.00	917.00	917.00	917.00	916.50	916.50	917.00
	vii.	Wheel Disc No.	00058/6067	00106/6129	00160/6107	00052/6216	06192/6067	00003/6067	00139/6177	00028/6129
	viii.	R.B. Nos.	87581	85793	87702	81014	80932	87877	73276	77987
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	Secondary suspension load deflection Values:									
Description		Lateral Damper Side		Non Lat. Damper side		Lateral Damper Side		Non Lat.Damper side		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	G-15-9-052	G-15-10-143	G-15-9-051	G-15-10-150	RSK-16-4-602	G-15-10-136	RSK-16-4-407	G-15-10-156	
ii.	Ht. at test load	511	465	509	466	513	468	515	469	
iii.	Align .deviation	9	13	8	10	3	1	3	5	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			L&S-15-12		L&S-15-12		L&S	
	ii.	Primary inner Spring			L&S-15-11		L&S-15-11		L&S	
	iii.	Primary Damper			37453,37469,37500,37340		37227,37032,37235,37464		KONI	
	iv.	Secondary damper			0778,0790		0736,0615		SV	
	v.	Lateral Damper			0458		0582		SV	
	vi.	Brake cylinder & Caliper			A17032/2000,A17007/2000 A13075/2000,A17014/2000		A17034/2000,A17013/2000 A17020/2000,A17004/2000		FTI	
	vii.	Brake Disc							FTI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							SGA	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							EMSON	
	xv.	Traction lever make							SARITA	
	xvi.	Ball joint traction lever							SGA	
	xvii.	Traction centre elastic							SGA	
	xviii.	Secondary rubber pad							TECSPAK	
	xix.	Rubber spring							GMT	
	xx.	Anti roll bar make							EMSON	
	xxi.	Ball joint roll link							SARITA	
	xxii.	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.	6073	DISPATCH DATE			24.04.17
2.	Railway	ECOR	Type	LWLRRM	Coach No.	17852
3.	Booked to	SSE/C&W/PUI				
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 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.	BIOTOILET			RAIL TECH	
	iv.	SEATS/S&B			AMIR CHAND	
	v.	BODY SIDE DOOR			JVR	
	vi.	VESTIBULE SLIDING DOOR			HP	
	vii.	CREW-GEN & GUARD ROOM DOOR			JBM/KALSI	
	viii.	WATER TANKS			AMIT & SHIVALIK	
	ix	FUEL TANK			GAURAV	
	x	UIC VESTIBULE			ESCORT	
	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.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6073	ECOR	LWLRRM	17852	27-03-2017			
11.1	Wheel & Axle Details:		Gen.van side 1 hand brake				Gen.van side 2			
	i.	Bogie No.	176273				176276			
	ii.	Frame No.	FIAT-5546				ECBT-027			
	iii.	Bolster No.	6774-P				6652-GT			
	iv.	Axle No.	N-0968		S-9711		K-5872		R-2713	
	v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
	vi.	Wheel Dia.	917.00	917.00	917.00	917.00	916.50	917.00	917.00	917.00
	vii.	Wheel Disc No.	00156/62 16	00092/61 79	00126/61 38	00035/62 16	00058/61 77	00049/62 19	00121/62 03	00067/6194
	viii.	R.B. Nos.	73028	75816	73125	80034	80111	98061	84490	82020
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	<u>Secondary suspension load deflection Values:</u>									
Description		Lateral Damper Side		Non Lat. Damper side		Lateral Damper Side		Non Lat.Damper side		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	G-15-9-065	G-15-10-214	G-15-9-120	G-15-10-189	RSK-16-10-269	G-15-10-222	RSK-16-10-615	G-15-10-141	
ii.	Ht. at test load	511	466	509	465	515	470	515	470	
iii.	Align .deviation	7	12	7	11	10	6	9	4	
11.3	<u>Items traceability:</u>									
	Sno.	Item						Make		
	i.	Primary Outer Spring			FSK-15-06		FSK-16-11		FSK	
	ii.	Primary inner Spring			L&S-15-11		L&S-15-11		L&S	
	iii.	Primary Damper			36998,37019,37037,36966		37003,36754,37027,37010		KONI	
	iv.	Secondary damper			0595,0740		0218,0573		SV	
	v.	Lateral Damper			0437		0234		SV	
	vi.	Brake cylinder & Caliper			A17026/2000,A17013/2000 A17027/2000,A17008/2000		M16006/2000,M16012/2000 M16002/2000,A17019/2000		FTI	
	vii.	Brake Disc							FTI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							SGA	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							EMSON	
	xv.	Traction lever make							AWF, SARITA	
	xvi.	Ball joint traction lever							MGN	
	xvii.	Traction centre elastic							SGA	
	xviii.	Secondary rubber pad							TECSPAK	
	xix.	Rubber spring							GMT	
	xx.	Anti roll bar make							SARITA	
	xxi.	Ball joint roll link							SARITA	
	xxii.	Fork make							SARITA	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				