



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5072	DISPATCH DATE			18.5.2016
2.	Railway	ECR	Type	LWACCN	Coach No.	16103
3.	Booked to	SSE/C&W/RNCC				
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	1102
v)	Buffer/CBC (Make)		SANROCK		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		VIBGYOR	88/88
8.2	APPLICATION OF PCN-123		SATISFACTORY			
8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:				Make	
i.	BRAKE EQUIPMENT				FAIVELEY	
ii.	CDTS/ BIO TOILET				RAIL FAB	
iii.	SEATS/ BERTHS				OVPL	
iv.	BODY SIDE DOOR				JBM	
v.	VESTIBULE SLIDING DOOR				KALSI	
vii.	WATER TANKS				KUTEER, SHIVALIK	
viii.	UIC VESTIBULE				KRP	
ix	FLOOR BOARD				TAYAL	
X	PVC				RESPONSIVE	
XI	LP SHEET					
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			
			5072	EC	LWACCN	16103/C	08-02-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166115				166116			
	ii.	Frame No.	FIAT-4585				FIAT-4465			
	iii.	Bolster No.	5506-P				5487-P			
	iv.	Axle No.	128635/989		129203/992		126521/481		128137/984	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	06229-00049	06150-00133	06234-00204	06226-00005	6226-00003	06226-00007	07297-00185	7222-00086
	vii.	R.B. Nos.	05689	06662	02955	06663	05701	06636	01413	06653
	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-15-9-183	RSK-15-3-434	G-15-9-240	RSK-15-3-451	G-15-9-247	RSK-15-3-229	G-15-9-250	RSK-15-3-444	
ii.	Ht. at test load	513	464	514	468	514	463	513	468	
iii.	Align .deviation	14	33	17	33	13	36	14	37	
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			FSK-15-6		FSK-15-6		FSK	
	iii.	Primary Damper			1334,1328,1342,652		637,1540,1330,1327		GEREP	
	iv.	Secondary damper			61,353		652,327		GEREP	
	v.	Lateral Damper			573		181		GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			M15009/600,M15003/600 M15011/600,M15012/600		L15153/600,L15146/600 L15162/600,L15134/600		FTI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							GMT	
	x.	Lateral Bump stop							MGN	
	xi.	Traction center make							EMSON	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							SGA	
	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							SARITA, EMSON	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5075	DISPATCH DATE			10.5.2016	
2.	Railway	ECR	Type	LWACCN	Coach No.	16102	
3.	Booked to	SSE/C&W/RNCC					
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)	SANROCK	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	VIBGYOR	88/89		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT		FAIVELEY			
	ii.	CDTS/ BIO TOILET		RAIL FAB			
	iii.	SEATS/ BERTHS		AAR KAY FOAMS			
	iv.	BODY SIDE DOOR		JBM			
	v.	VESTIBULE SLIDING DOOR		KALSI			
	vii.	WATER TANKS		AMIT & SHIVALIK			
	viii.	UIC VESTIBULE		KRP			
	ix	FLOOR BOARD		NARBADA			
	X	PVC		RESPONSIVE			
	XI	LP SHEET		KAE			
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	
			5075		ECR		LWACCN		16102/C		21-03-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166077						166078			
	ii.	Frame No.	FIAT-4584						FIAT-4589			
	iii.	Bolster No.	5019-VT						5002-VT			
	iv.	Axle No.	128805/990		126433/481		127914/988		128059/986			
	v.	Wheel Dia.	916.50	916.50	917.00	917.00	916.00	916.00	915.00	915.00		
	vi.	Wheel Disc No.	6204-00107	7270-00132	7222-00167	6202-00010	6227-00083	6229-00145	6206-00013	7290-00163		
	vii.	R.B. Nos.	02665	01769	03571	04008	03633	03642	02388	02165		
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	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-15-9-210	RSK-15-3-237	G-15-9-223	RSK-15-3-271	G-15-9-287	RSK-15-3-354	G-15-9-174	RSK-15-3-267			
ii.	Ht. at test load	510	465	513	463	512	466	513	468			
iii.	Align .deviation	16	37	13	35	17	31	17	29			
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			GBD-15-11			GBD-15-11			GBD	
	iii.	Primary Damper			1058,949,1030,988			1043,987,1020,986			GEREP	
	iv.	Secondary damper			1007,934			1006,1012			GEREP	
	v.	Lateral Damper			3692			3251			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			M15085/600,M15101/600 M15087/600,M15108/600			M15090/600,M15066/600 M15093/600,M15072/600			FTI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									EMSON	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									SGA	
	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									SARITA	
11.4	i.	Modification / Trial (if any):			NIL							
	ii.	Deviations (if any):			NIL							

LWACCN-5075