



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5028	DISPATCH DATE			19.02.2016	
2.	Railway	NR	Type	LWACCN	Coach No.	163133	
3.	Booked to	SSE/C&W/NDLS					
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)	ESCORTS	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	APEX	86/88		
	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 TECH				
	iii.	SEATS/ BERTHS	AAR KAY FOAMS				
	iv.	BODY SIDE DOOR	SUKATA				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	SALOON DOOR	KALSI				
	vii.	WATER TANKS	KUTEER, MANOJ				
	viii.	UIC VESTIBULE	FRIKMART				
	ix	FLOOR BOARD	TAYAL				
	X	PVC	RESPONSIVE				
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	
			5028		NR		LACCN		163133		01-12-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156920						156921			
	ii.	Frame No.	FIAT-4463						FIAT-4473			
	iii.	Bolster No.	147/GT/ASR						5312-VT			
	iv.	Axle No.	129111/199		126304/474		126639/480		126109/471			
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	915.50	916.00	916.50	916.00		
	vi.	Wheel Disc No.	6225-00119	6228-00052	6225-00005	6228-00005	7172-00038	6192-00112	7172-00147	6228-00052		
	vii.	R.B. Nos.	01875	01132	05094	01731	02479	01624	02129	04864		
	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.	FSK-15-9-01	G-12-8-3178	FSK-15-9-34	G-12-8-3260	FSK-15-9-4	G-12-8-3282	FSK-15-9-20	G-12-8-3319			
ii.	Ht. at test load	513	466	515	466	513	468	513	468			
iii.	Align .deviation	8	15	8	18	7	29	7	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			FSK-15-6			FSK-15-6			FSK	
	iii.	Primary Damper			0281,0207,0236,0325			0318,0282,0224,0284			KNORR	
	iv.	Secondary damper			0037,0059			0088,0025			KNORR	
	v.	Lateral Damper			0085			0038			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			L15155/600,L15164/600, L15149/600,L15124/600			L15151/600,L15108/600, L15157/600,L15110/600			FTI	
	viii.	Brake Disc									FTI	
	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									MGN	
	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				

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5030	DISPATCH DATE			15.02.2016	
2.	Railway	NR	Type	LWACCN	Coach No.	163132	
3.	Booked to	SSE/C&W/NDLS					
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	1100	
v)	Buffer/CBC (Make)		ESCORTS		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		APEX	85/88	
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 TECH
iii.	SEATS/ BERTHS						AAR KAY FOAMS
iv.	BODY SIDE DOOR						SUKATA
v.	VESTIBULE SLIDING DOOR						KALSI
vi.	SALOON DOOR						KALSI
vii.	WATER TANKS						KUTEER, MANOJ
viii.	UIC VESTIBULE						ESCORTS
ix	FLOOR BOARD						TAYAL
X	PVC						RESPONSIVE
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	
			5030		NR		LACCN		163132		20-11-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156863						156864			
	ii.	Frame No.	FIAT-4122						FIAT-4456			
	iii.	Bolster No.	5210-P						5224-P			
	iv.	Axle No.	126918/470		126931/476		128240/991		114932/369			
	v.	Wheel Dia.	915.50	915.50	915.00	915.00	916.00	916.00	916.00	916.00		
	vi.	Wheel Disc No.	7150-00151	06228-00082	6202-00223	6211-00005	7166-00150	7150-00072	6207-00082	06222-00027		
	vii.	R.B. Nos.	03316	05325	34030	05319	01872	01320	01243	01566		
	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.	GBD-15-3-47	G-12-8-3496	GBD-15-3-2	G-12-8-3461	GBD-15-3-33	G-12-8-3327	GBD-15-3-62	G-12-8-3658			
ii.	Ht. at test load	512	467	514	467	514	467	514	467			
iii.	Align .deviation	9	24	9	25	7	10	9	13			
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-15-8			GBD-15-8			GBD	
	iii.	Primary Damper			0342,0382,0354,0363			0367,0240,0366,0368			KNORR	
	iv.	Secondary damper			0159,0157			0144,0056			KNORR	
	v.	Lateral Damper			0055			00075			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			H15113/600,H15095/600 H15117/600,H15127/600			H15093/600,H15105/600 H15036/600,H15106/600			FTI	
	viii.	Brake Disc									FTI	
	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									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				

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