



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6013	DISPATCH DATE				27.12.16
2.	Railway	NR	Type	LWACCW	Coach No.	163091	
3.	Booked to	SSE/C&W/DLI					
4.	Tare Weight of Coach	52					
5.	Carrying Capacity	Seating	52	Sleeping	52	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)	ESCORT	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	3.00 ± 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	VIBNGYOR	85/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	KBI				
	ii.	BIO TOILET	RAIL FAB,JLS LIFE STYL				
	iii.	SEATS/ BERTHS	OVPL				
	iv.	BODY SIDE DOOR	SUKATA				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	COMPTT.DOOR	JR				
	vii.	WATER TANKS	MANOJ,SHIVALIK				
	viii.	UIC VESTIBULE	KRP				
	ix	FLOOR BOARD	NARBADA				
	X	PVC	RESPNSIVE				
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	
			6013		NR		LWACCW		163091		23-11-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	167012					167014				
	ii.	Frame No.	FIAT-5169					FM-651				
	iii.	Bolster No.	6389-P					6344-P				
	iv.	Axle No.	R-3479		R-3560			N-6681		N-0308		
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	7196-00131	7196-00100	04403-6QL3	03470-6QG8	6106-00187	00140-6106	08439-6QH4	03297-6QL4		
	vii.	R.B. Nos.	83166	94748	34498	63198	35669	30882	34890	33730		
	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.	RSK-16-7-1115	FSK-16-7-33	RSK-16-7-1140	FSK-16-7-41	RSK-15-5-1081	RSK-16-5-885	RSK-15-5-1099	RSK-16-5-728			
ii.	Ht. at test load	512	465	512	463	512	465	511	468			
iii.	Align .deviation	11	9	11	7	10	39	12	42			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-15-11			RSK-15-5			RSK	
	ii.	Primary inner Spring			RSK-16-3			RSK-16-6			RSK	
	iii.	Primary Damper			4184,4090,4136,4133			3805,3967,4027,4047			KNORR	
	iv.	Secondary damper			0429,0430			0484,0455			SV	
	v.	Lateral Damper			0309			0499			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			3715/691,3681/691 3713/691,3782/691			4142/691,4160/691 4139/691,4182/691			KBI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									GMT	
	xi.	Traction center make									EMSON	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									SGA	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TECSPACK	
	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.	6009	DISPATCH DATE				23.12.2016
2.	Railway	NR	Type	LWACCW	Coach No.	163089	
3.	Booked to		SSE/C&W/NDLS				
4.	Tare Weight of Coach		52				
5.	Carrying Capacity	Seating	52	Sleeping	52	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		3.00 ± 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	87/87	
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, JSL		
iii.	SEATS/ BERTHS				OVPL		
iv.	BODY SIDE DOOR				JBM		
v.	VESTIBULE SLIDING DOOR				KALSI		
vi.	COMPTT.DOOR				HANSPAL		
vii.	WATER TANKS				AMIT & SHIVALIK		
viii.	UIC VESTIBULE				ESCORTS		
ix	FLOOR BOARD				NARBADA		
X	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	
			6009		NR		LWACCW		163089		12-10-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166899						166898			
	ii.	Frame No.	FIAT-5156						FIAT-5224			
	iii.	Bolster No.	6269-GT						6169-GT			
	iv.	Axle No.	R-3556			K-6010			R-3695		R-3307	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	916.50	917.00		
	vi.	Wheel Disc No.	03152-6QL7	03168-6QL7	03509-6QG8	07819-6QL7	00065-7196	00177-7196	03153-6QL7	03167-6QL7		
	vii.	R.B. Nos.	06304	06298	06057	05236	05760	06169	06103	05608		
	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.	RSK-16-7-1025	ABOK-16-9-41	RSK-16-6-938	ABOK-16-9-44	RSK-16-6-1030	ABOK-16-9-47	RSK-16-6-602	ABOK-16-9-046			
ii.	Ht. at test load	511	466	510	468	511	468	510	468			
iii.	Align .deviation	12	10	14	10	10	4	8	4			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-15-10			RSK-15-10			RSK	
	ii.	Primary inner Spring			RSK-16-3			RSK-16-3			RSK	
	iii.	Primary Damper			3821,4386,4331,4329			4335,4307,4333,3845			KNORR	
	iv.	Secondary damper			0482,0010			0611,0614			SV	
	v.	Lateral Damper			0451			0552			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			G16153/600,G16211/600 G16037/600,G16210/600			G16194/600,G16311/600 G16198/600,G16299/600			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									SGA	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TECSPACK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									SARITA	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									EMSON, 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.	6015	DISPATCH DATE				03.12.2016
2.	Railway	NR	Type	LWACCW	Coach No.	163090	
3.	Booked to		SSE/C&W/NDLS				
4.	Tare Weight of Coach		52				
5.	Carrying Capacity	Seating	52	Sleeping	52	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	3.00 ± 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.	CDTS/ BIO TOILET	RAIL FAB, JSL				
	iii.	SEATS/ BERTHS	OVPL				
	iv.	BODY SIDE DOOR	JBM, SUKATA				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	COMPTT.DOOR	HANSPAL				
	vii.	WATER TANKS	AMIT & SHIVALIK				
	viii.	UIC VESTIBULE	KRP				
	ix	FLOOR BOARD	NARBADA				
	X	PVC	PREMIER POLYMER				
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	
			6015		NR		LWACCW		163090		06-10-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166876						166877			
	ii.	Frame No.	FIAT-5204						FIAT-5145			
	iii.	Bolster No.	6159-GT						6184-GT			
	iv.	Axle No.	K-6048			R-2353			N-6369		K-6370	
	v.	Wheel Dia.	916.00	916.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	
	vi.	Wheel Disc No.	3732-6QJ3	03197-6QL7	7301-00196	7196-00189	00156-7198	00171-7196	07002-6QJ4	06154-6QK6		
	vii.	R.B. Nos.	02332	02352	02145	01325	06304	02115	01266	01098		
	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.	RSK-16-7-1047	AFJ-16-9-59	RSK-16-5-468	AFJ-16-9-63	RSK-16-6-1026	AFJ-16-9-58	RSK-16-6-427	AFJ-16-9-61			
ii.	Ht. at test load	510	463	510	463	512	467	510	466			
iii.	Align .deviation	9	17	8	15	11	7	11	8			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			L&S-12-5			RSK-15-10			L&S, RSK	
	ii.	Primary inner Spring			L&S-13-2			RSK-16-3			L&S, RSK	
	iii.	Primary Damper			3219,3222,3130,3125			3367,3370,3270,3279			KNORR	
	iv.	Secondary damper			0452,0640			0613,0538			SV	
	v.	Lateral Damper			535			509			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			4247/691,4270/691 4246/691,4275/691			4232/691,4193/691 4233/691,4191/691			KBI	
	viii.	Brake Disc									KBI,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									SGA	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TECSPACK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									SARITA	
	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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