



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6011	DISPATCH DATE				20.10.2016
2.	Railway	NR	Type	LWACCW	Coach No.	163085	
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	1100	
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 <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	87/87	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT					FAVELLY	
ii.	BIO TOILET					RAIL FAB,JSL	
iii.	SEATS/ BERTHS					OVPL	
iv.	BODY SIDE DOOR					JBM, SUKATA	
v.	VESTIBULE SLIDING DOOR					KALSI	
vi.	COMPTT.DOOR					JR	
vii.	WATER TANKS					KUTEER,SHIVALIK	
viii.	UIC VESTIBULE					KRP	
ix	FLOOR BOARD					NARBADA	
X	PVC					PREMIER POLYFILM	
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	<b>Bogie Details:</b>	<b>Shell No.</b>	<b>Railway</b>	<b>Type</b>	<b>Coach No.</b>	<b>Dispatch Date</b>				
		6011	NR	LWACCW	163085	05-10-2016				
11.1	<b>Wheel &amp; Axle Details:</b>	<b>PP Side</b>				<b>NPP Side</b>				
	i. Bogie No.	166872				166873				
	ii. Frame No.	FM-642				FIAT-5112				
	iii. Bolster No.	6068-VT				6090-P				
	iv. Axle No.	N-0858		R-2279		P-9682		N-6376		
	v. Wheel Dia.	916.00	916.00	916.00	916.00	917.00	916.50	917.00	916.50	
	vi. Wheel Disc No.	00195-7196	7196-00200	05183-6QM3	05887-6QL9	7196-00005	7196-00015	7301-00169	7196-00155	
	vii. R.B. Nos.	06227	04999	06239	05329	01589	01760	01985	01485	
	viii. R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN		
	ix. RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	<b>Secondary suspension load deflection Values:</b>									
	<b>Description</b>	<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	
i.	<b>Make &amp; nos.</b>	RSK-15-5-1023	AFJ-16-9-15	RSK-15-5-588	AFJ-16-9-NIL	RSK-15-5-719	AFJ-16-9-1	RSK-15-5-709	AFJ-16-9-13	
ii.	<b>Ht. at test load</b>	510	465	509	467	510	468	511	468	
iii.	<b>Align .deviation</b>	7	10	5	8	8	16	11	18	
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	RSK-16-1			RSK-16-1			RSK	
	ii.	Primary inner Spring	RSK-14-3			RSK-14-3			RSK	
	iii.	Primary Damper	3150,3153,2873,3179			3033,3045,3044,3032			KNORR	
	iv.	Secondary damper	0295,0201			0267,323			SV	
	v.	Lateral Damper	0151			532			SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper	F16128/600,F16088/600 F16121/600,F16087/600			F16118/600,F16056/600 F16095/600,F16053/600			FTI	
	viii.	Brake Disc							FTI,KBI	
	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							EMSON, 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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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6018	DISPATCH DATE				20.10.2016
2.	Railway	NR	Type	LWACCW	Coach No.	163088	
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	1104	1103		
	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 <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	89/89		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	FAVELLY				
	ii.	BIO TOILET	RAIL FAB,JSL				
	iii.	SEATS/ BERTHS	OVPL				
	iv.	BODY SIDE DOOR	SUKATA				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	COMPTT.DOOR	JR				
	vii.	WATER TANKS	AMIT,SHIVALIK				
	viii.	UIC VESTIBULE	KRP				
	ix	FLOOR BOARD	NARBADA				
	X	PVC	PREMIER POLYFILM				
10.							
	10.1	Modification / Trail (if any):	NIL				
	10.2	Deviations if any:	NIL				



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6018		NR		LWACCW		163088		08-10-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	166894					166895				
	ii.	<b>Frame No.</b>	FIAT-5228					FIAT-5152				
	iii.	<b>Bolster No.</b>	6141-P					6118-P				
	iv.	<b>Axle No.</b>	N-0297		P-9278			N-6228		N-0834		
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	<b>Wheel Disc No.</b>	06541-6QH1	06733-6QH6	00541-6MG8	03957-6QH0	06727-6GH1	03676-6QK3	04453-6QJ3	07223-6QJ6		
	vii.	<b>R.B. Nos.</b>	05403	06372	05405	03379	05376	06266	05748	05378		
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN			TIMKEN		TIMKEN		
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	RSK-15-5-1049	AFJ-16-9-66	RSK-16-5-889	AFJ-16-9-70	RSK-16-6-937	AFJ-16-9-9	RSK-16-6-828	AFJ-16-9-71			
ii.	<b>Ht. at test load</b>	512	468	512	468	512	468	511	468			
iii.	<b>Align .deviation</b>	15	8	13	8	8	9	11	10			
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			RSK-15-10			RSK-15-10			RSK	
	ii.	Primary inner Spring			RSK-16-3			RSK-16-3			RSK	
	iii.	Primary Damper			3974,3890,3642,4330			4332,4135,4305,4119			KNORR	
	iv.	Secondary damper			475,0584			0011,0642			SV	
	v.	Lateral Damper			0338			0308			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			G1602/600,G16273/600 G16195/600,G16309/600			G16209/600,G16317/600 G16208/600,G16308/600			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							

LWACCW-6018

