



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6002	DISPATCH DATE				28.07.2016
2.	Railway	NE	Type	LWACCW	Coach No.	16054	
3.	Booked to			SSE/C&W/GKP			
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	1102	
v)	Buffer/CBC (Make)		FAIVELEY		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		GS	86/88	
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		
iii.	SEATS/ BERTHS				AMIR CHAND		
iv.	BODY SIDE DOOR				JBM,SUKATA		
v.	VESTIBULE SLIDING DOOR				HANSPAL		
vi.	COMPTT.DOOR				SUKATA		
vii.	WATER TANKS				AMIT		
viii.	UIC VESTIBULE				ESCORT		
ix	FLOOR BOARD				TAYAL		
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	
			6002		NE		LWACCW		16054		12-03-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166223					166224				
	ii.	Frame No.	FIAT-4723					FIAT-4712				
	iii.	Bolster No.	5592-VT					5509-P				
	iv.	Axle No.	K-3016		K-3831			K-6097		K-3490		
	v.	Wheel Dia.	916.00	916.00	916.00	916.50	916.00	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	7300-00164	7283-00033	7302-00105	6204-00193	7300-00155	6204-00195	7304-00035	6204-00179		
	vii.	R.B. Nos.	03106	05312	04933	05124	05450	05121	02817	02772		
	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.	DN-12-8-1787	DN-12-10-1703	DN-12-8-2183	DN-12-10-1727	DN-12-8-7986	DN-12-10-1716	DN-12-8-2033	DN-12-10-1620			
ii.	Ht. at test load	506	461	505	465	503	468	503	467			
iii.	Align .deviation	16	18	19	19	15	9	17	13			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-13-2			RSK-13-2			RSK	
	ii.	Primary inner Spring			RSK-14-5			RSK-14-5			RSK	
	iii.	Primary Damper			1954,1826,1970,1828			919,1981,1839,1960			GEREP	
	iv.	Secondary damper			0623,0098			0069,0142			KNORR	
	v.	Lateral Damper			00024			0029			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			2049/691,2104/691 2057/691,2101/691			2016/691,2082/691 2015/691,2081/691			KBI	
	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									GMT	
	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.	5032	DISPATCH DATE				20.07.2016
2.	Railway	NE	Type	LWACCW	Coach No.	16053	
3.	Booked to		SSE/C&W/GKP				
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	1102		
	v)	Buffer/CBC (Make)	FAIVELEY	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	GS	86/85		
	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				
	iii.	SEATS/ BERTHS	AMIR CHAND				
	iv.	BODY SIDE DOOR	JBM,SUKATA				
	v.	VESTIBULE SLIDING DOOR	HANSPAL				
	vi.	COMPTT.DOOR	SUKATA				
	vii.	WATER TANKS	AMIT ,KUTEER,SHIVALIK				
	viii.	UIC VESTIBULE	ESCORT				
	ix	FLOOR BOARD	TAYAL				
	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	
			5032		NE		LWACCW		16053		05-03-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166197					166198				
	ii.	Frame No.	FIAT-4477					FIAT-4643				
	iii.	Bolster No.	3866-P					5494-P				
	iv.	Axle No.	K-2994		126855/470			125872/477		127900/987		
	v.	Wheel Dia.	917.00	917.00	917.00	916.50	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	7290-00038	7290-00155	7290-00159	6206-00069	7290-00158	6206-00056	6226-00035	6206-00057		
	vii.	R.B. Nos.	03897	02160	03422	01844	03534	02336	02955	01850		
	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-15-5-265	RSK-15-3-072	RSK-15-5-367	RSK-15-3-171	RSK-15-5-385	RSK-15-3-505	RSK-15-5-391	RSK-15-3-074			
ii.	Ht. at test load	512	467	512	467	508	468	510	465			
iii.	Align .deviation	14	30	14	31	7	29	8	30			
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			RSK-14-5			RSK-14-5			RSK	
	iii.	Primary Damper			757,746,892,737			847,7292,824,836			GEREP	
	iv.	Secondary damper			1237,1212			1267,1208			GEREP	
	v.	Lateral Damper			3617			3693			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper									-----	
	viii.	Brake Disc									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									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							

LWACCW 5032

