



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5014	DISPATCH DATE				10.09.2015
2.	Railway	WR	Type	LWCBAC	Coach No.	148045	
3.	Booked to	SSE/C&W/BCT					
4.	Tare Weight of Coach	40.9 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	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 )	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 <sup>2</sup>	6 –10 sec	6 Sec			
		Max Pressure in BC	3.80 ± 0.15 Kg/cm <sup>2</sup>	3.80			
		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	ADVANCE	85/88			
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	ORIENTAL					
iii.	SEATS/ BERTHS	AMIR CHAND					
iv.	BODY SIDE DOOR	JBM					
v.	VESTIBULE SLIDING DOOR	KALSI					
vi.	SALOON DOOR	KALSI					
vii.	WATER TANKS	KUTEER & MANOJ					
viii.	UIC VESTIBULE	FRIKMART, SUNCREAST					
ix	FLOOR BOARD	TAYAL					
X	PVC	RESPONSIVE					
Xi	LP SHEET						
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>	
			5014		WR		LWBAC		158045/C		14-08-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156597						156598			
	ii.	<b>Frame No.</b>	FIAT-4144						FIAT-4154			
	iii.	<b>Bolster No.</b>	4920-VT						4976/VT			
	iv.	<b>Axle No.</b>	Z-3424			B-9745			125863/477		127888/987	
	v.	<b>Wheel Dia.</b>	912.00	912.00	909.00	909.00	913.00	913.00	913.00	913.00		
	vi.	<b>Wheel Disc No.</b>	234-50846	375-11603	06147-0973	6147-00078	256-11605	243-10577	119-10533	134-51912		
	vii.	<b>R.B. Nos.</b>	01096	23035	25875	26084	22037	21921	22139	22511		
	viii.	<b>R.B. Make</b>	SKF			SKF			SKF		SKF	
	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>			
			Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner		
i.	<b>Make &amp; nos.</b>	DN-12-9-2649	G-13-4-4405	DN-12-9-2193	G-13-4-4374	DN-12-9-2631	G-12-11-3800	DN-12-9-2737	G-12-11-3759			
ii.	<b>Ht. at test load</b>	503	467	502	467	504	466	504	466			
iii.	<b>Align .deviation</b>	15	9	17	14	17	3	19	6			
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-13-02			RSK-14-05			RSK	
	ii.	Primary inner Spring			RSK-14-05			RSK-14-05			RSK	
	iii.	Primary Damper			23680,22779,22765,23854			22742,22786,22394,22307			KONI	
	iv.	Secondary damper			4299,4721			4357,5338			KONI	
	v.	Lateral Damper			553			66			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1097/691,1167/691,1093/691,1192/691			1087/691,1191/691,1096/691,1196/691			KBI	
	viii.	Brake Disc									FTI,KBI	
	ix.	Ball joint Control arm									GMT	
	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									GMT	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									EMSON	
11.4	i.	<b>Modification / Trial (if any):</b>			NIL							
	ii.	<b>Deviations (if any):</b>			LESS WHEEL DIA							

LWCBAC-5014



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5005	DISPATCH DATE				04.09.2015
2.	Railway	WR	Type	LWCBAC	Coach No.	148031	
3.	Booked to	SSE/C&W/MUMBAI					
4.	Tare Weight of Coach	40.9 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	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	1100	1102			
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 <sup>2</sup>	6 –10 sec	6 Sec			
		Max Pressure in BC	3.80 ± 0.15 Kg/cm <sup>2</sup>	3.80			
		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	GS	88/87			
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 TECH					
iii.	SEATS/ BERTHS	AMIR CHAND					
iv.	BODY SIDE DOOR	JBM, SUKATA					
v.	VESTIBULE SLIDING DOOR	KALSI					
vi.	SALOON DOOR	KALSI					
vii.	WATER TANKS	KUTEER, E C BLADES & MANOJ					
viii.	UIC VESTIBULE	SUNCREAST					
ix	FLOOR BOARD	TAYAL					
X	PVC	RESPONSIVE					
Xi	LP SHEET						
10.							
10.1	Modification / Trail (if any):	NIL					
10.2	Deviations if any:	NIL					



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11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5005	WR	LWBAC	148031/C	17-08-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	156599				156600			
	ii.	Frame No.	FIAT-4150				FIAT-4201			
	iii.	Bolster No.	4886-VT				4146-ECBT			
	iv.	Axle No.	C-4364		C-0036		Z-3841		128976/986	
	v.	Wheel Dia.	910.00	910.00	911.00	911.00	915.00	915.00	915.00	915.00
	vi.	Wheel Disc No.	382-50788	111-10568	153-50859	341-10582	103-11607	248-11605	309-11610	135-11607
	vii.	R.B. Nos.	29691	29672	21951	23043	29692	01924	29582	22382
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	DN-13-02-3113	G-13-4-4664	DN-13-1-3162	G-12-11-3716	DN-13-3135	G-13-4-4649	DN-13-1-2223	G-13-44658	
ii.	Ht. at test load	507	466	507	467	503	467	503	468	
iii.	Align .deviation	17	20	20	23	15	20	19	20	
11.3	<b>Items traceability:</b>									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	RSK-14-05		RSK-14-05		RSK			
	ii.	Primary inner Spring	RSK-14-05		RSK-14-05		RSK			
	iii.	Primary Damper	22339,22347,22423,22648		22784,23699,22279,23651		KONI			
	iv.	Secondary damper	24723,3514		4340,04693		KONI			
	v.	Lateral Damper	544		NIL		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	F15101/600,F15128/600, F15111/600,F15126/600		F15103/600,F15137/600, F15127/600,F-15104/600		FTI			
	viii.	Brake Disc					KBI			
	ix.	Ball joint Control arm					GMT			
	x.	Lateral Bump stop					GMT			
	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					SARITA			
	xviii.	Ball joint roll link					SARITA			
	xix.	Fork make					EMSON			
11.4	i.	Modification / Trial (if any):	NIL							
	ii.	Deviations (if any):	LESS WHEEL DIA							