



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4069	DISPATCH DATE			01.12.2014	
2.	Railway	WR	Type	LWACCN	Coach No.	141501	
3.	Booked to	SSE/C&W/BCT					
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	VIBGYOR	89/88		
	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	STONE INDIA				
	iii.	SEATS/ BERTHS	SAVITRI				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	JBM				
	vi.	SALOON DOOR	NA				
	vii.	WATER TANKS	AMIT & SHIVALIK				
	viii.	UIC VESTIBULE	CEMCON				
	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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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date		
			4069		WR		LWACCN		141501/C		20-11-2014		
12.1	Wheel & Axle Details:		PP Side					NPP Side					
	i.	Bogie No.	146957					146958					
	ii.	Frame No.	SCI/FM-56					SCI/FM-49					
	iii.	Bolster No.	4299-VT					4346-VT					
	iv.	Axle No.	128159/984		127822/987			Z-3740		126836/468			
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00		
	vi.	Wheel Disc No.	006-10533	141-61077	333-63309	046-10570	008-10533	088-11600	153-10570	194-10570			
	vii.	R.B. Nos.	37048	36706	27878	32010	27676	37228	32201	36713			
	viii.	R.B. Make	SKF		SKF			SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING										
12.2	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.		CMGBD-7-14-836-38	G-11-12-3701	CMGBD-7-14-836-31	G-11-12-3971	CMGBD-7-14-836-38	G-11-12-3745	CMGBD-7-14-38-26	G-13-5-5113			
ii.	Ht. attest load		515	467	515	466	515	467	511	466			
iii.	Align .deviation		7	13	8	18	8	18	8	21			
12.3	Items traceability:												
Sno.		Item			PP Side Bogie			NPP side Bogie			Make		
i.	Primary Outer Spring			L&S-13-3			L&S-13-3			L&S			
ii.	Primary inner Spring			L&S-12-5			L&S-12-5			L&S			
iii.	Primary Damper									KONI			
iv.	Secondary damper									SACHS			
v.	Lateral Damper									KONI			
vi.	Yaw Damper									NIL			
vii.	Brake cylinder & Caliper									FTI			
viii.	Brake Disc									KBI			
ix.	Ball joint Control arm									MGN			
x.	Lateral Bump stop									GMT			
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			
12.4	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.	4072	DISPATCH DATE			05.12.2014	
2.	Railway	WR	Type	LWACCN	Coach No.	141511	
3.	Booked to		SSE/C&W/BCT/M				
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	VIBGYOR	91/89		
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			STONE INDIA			
iii.	SEATS/ BERTHS			SAVITRI			
iv.	BODY SIDE DOOR			SUKATA & JBM			
v.	VESTIBULE SLIDING DOOR			JBM			
vi.	SALOON DOOR			NA			
vii.	WATER TANKS			E C BLADE & SHIVALIK			
viii.	UIC VESTIBULE			CEMCON			
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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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4072		WR		LWACCN		141511		20-11-2014	
12.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	146923					146924				
	ii.	Frame No.	ECBT-866					ECBT-889				
	iii.	Bolster No.	4331-VT					3757-VT				
	iv.	Axle No.	Z-3386		Z-3930		Z-3364		Z-3973			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	111-10579	216-10559	212-63301	330-10568	236-10559	352-10568	200-10559	283-10583		
	vii.	R.B. Nos.	02229	03027	27991	36762	36792	36706	27022	02986		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	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.	YR-13-12-45	YR-13-11-113	YR-13-12-46	YR-13-11-118	YR-13-12-38	YR-13-11-120	YR-13-12-37	YR-13-11-95			
ii.	Ht. attest load	511.10	465.10	510.90	466.90	510.50	466.40	510.00	464			
iii.	Align .deviation	5.6	29.94	8.70	29.52	9.20	22.34	7.55	26.34			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			YR-13-11		YR-13-11		YR			
	ii.	Primary inner Spring			YR-13-12		YR-13-12		YR			
	iii.	Primary Damper							KONI			
	iv.	Secondary damper							SACHS			
	v.	Lateral Damper							KONI			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							FTI			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							MGN			
	x.	Lateral Bump stop							GMT			
	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							EMSON			
12.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					