



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4031	DISPATCH DATE				21.01.2015
2.	Railway	SWR	Type	LWSCZAC	Coach No.	14160	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	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	1105			
v)	Buffer/CBC (Make)	ESCORTS	Fiba Device	NA			
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	87/88			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT					FAIVELEY	
iii.	CDTS					ECORTS	
iv.	SEAT & BERTH					SUTLEJ	
v.	BODY SIDE DOORS					JBM	
vi.	SALOON COMPTT DOORS					CP	
vii.	VESTIBULE SLIDING DOOR					KALSI	
viii.	WATER TANKS					AMIT, SHIVALIK	
ix	UIC VESTIBULE					CEMCON	
x	LUGGAGE RACK					RAIL TECH	
XI	FLOOR BOARD					NARBADA	
XII	PVC					RESPONSIVE	
10.							
10.1	Modification / Trail (if any):					NIL	
10.2	Deviations if any:					NIL	



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4031		SWR		LWSCZAC		14160		07-01-2015	
12.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	156015					156016				
	ii.	Frame No.	FIAT-3653					FIAT-3674				
	iii.	Bolster No.	4405-VT					4397-VT				
	iv.	Axle No.	Z-3324		A-2943			Z-3375		A-2797		
	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.	189-11596	015-11605	094-11600	249-11611	040-11610	003-10533	225-11596	195-11596		
	vii.	R.B. Nos.	01310	01390	00930	01074	01372	01289	01063	00946		
	viii.	R.B. Make	TIMKEN		TIMKEN			TIMKEN		TIMKEN		
	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-13-12-001	YR-13-06-167	YR-13-12-003	YR-13-06-168	YR-13-12-002	YR-13-06-172	YR-13-12-004	YR-13-06-170			
ii.	Ht. attest load	509	467.4	511.8	466.7	509.1	466.7	508.4	467.8			
iii.	Align .deviation	21.11	26.89	21.07	25.99	30.40	22.87	26.84	22.50			
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							GEREP			
	v.	Lateral Damper							GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							FTI			
	viii.	Brake Disc							FTII			
	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,SGA			
	xiv.	Traction centre elastic							GMT,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					

LWSCZAC-4031



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4016	DISPATCH DATE				05.02.2015
2.	Railway	SWR	Type	LWSCZAC	Coach No.	14161	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	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	1105		
	v)	Buffer/CBC (Make)	ESCORTS	Fiba Device	NA		
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	86/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT	FAIVELEY				
	iii.	CDTS	ECORTS				
	iv.	SEAT & BERTH	SUTLEJ				
	v.	BODY SIDE DOORS	JBM, SUKATA				
	vi.	SALOON COMPTT DOORS	CP				
	vii.	VESTIBULE SLIDING DOOR	KALSI				
	viii.	WATER TANKS	AMIT, SHIVALIK				
	ix	UIC VESTIBULE	CEMCON				
	x	LUGGAGE RACK	RAIL TECH				
	XI	FLOOR BOARD	TAYAL				
	XII	PVC	PREMIER POLYFILM				
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4016		SWR		LWSCZAC		14161		14-01-2015	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156038						156039			
	ii.	Frame No.	FIAT-3696						FIAT-3677			
	iii.	Bolster No.	4455-GT						4445-GT			
	iv.	Axle No.	Z-3821			Z-3986			Z-3944		Z-3969	
	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.	206-11610	118-11610	134-11607	245-11610	014-11610	297-11610	241-11607	299-11607		
	vii.	R.B. Nos.	01095	01259	01531	00882	01261	01282	01001	01243		
	viii.	R.B. Make	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	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-13-12-076	YR-13-11-152	YR-13-12-073	YR-13-11-158	YR-13-12-038	YR-13-11-145	YR-13-12-039	YR-13-11-150			
ii.	Ht. attest load	509.70	463.20	511	465.90	511.60	463.80	509.80	465.30			
iii.	Align .deviation	30.27	28.28	30.59	32.59	27.52	17.82	29.77	21.21			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			YR-13-06,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							GEREP			
	v.	Lateral Damper							GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							FTI			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							GMT			
	x.	Lateral Bump stop							SGA,GMT			
	xi.	Traction center make							SARITA			
	xii.	Traction lever make							SARITA			
	xiii.	Ball joint traction lever							GMT,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							EMSON			
12.4	i.	Modification / Trial (if any):				NIL						
	ii.	Deviations (if any):				NIL						

LWSCZAC-4016