



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4036	DISPATCH DATE				29.05.2015
2.	Railway	SCR	Type	LWLRRM	Coach No.	14854	
3.	Booked to	SSE/C&W/GHY					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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		1102	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	89	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT			KBI			
iii.	CDTS			VIBHU			
iv.	SEATS/S&B			RCF			
v.	BODY SIDE DOOR			JBM			
vi.	VESTIBULE SLIDING DOOR			KALSI			
vii.	CREW-GEN & GUARD ROOM DOOR			CONCEPT/JBM			
viii.	WATER TANKS			SHIVALIK, E C BLADES			
ix	FUEL TANK			GAURAV			
x	UIC VESTIBULE			KRP			
XI	FLOOR BOARD			TAYAL			
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	
			4036		SCR		LWLRRM		14854/C		22-7-2014	
12.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	146633					146637				
	ii.	Frame No.	FIAT-3247					FIAT-3288				
	iii.	Bolster No.	4017-VT					3756-P				
	iv.	Axle No.	Z-3249		W-4718			Z-3666		Z-3825		
	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.	330-10559	040-10568	191-10570	096-10579	099-10533	247-11611	252-11600	069-10570		
	vii.	R.B. Nos.	36608	36634	35959	36540	36141	35900	36123	36328		
	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.	DN-13-04-352	DN-11-12-227	DN-13-4-346	DN-11-11-205	DN-13-3-160	DN-12-2-199	DN-13-3-1620	DN-12-2-201			
ii.	Ht. attest load	512	460	512	469	514	459	513	470			
iii.	Align .deviation	7	9	8	14	6	3	6	6			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			L&S-05-12		L&S-05-12		L&S			
	ii.	Primary inner Spring			L&S-05-12		L&S-05-12		L&S			
	iii.	Primary Damper							KONI			
	iv.	Secondary damper							SACHS			
	v.	Lateral Damper							SACHS			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							KBI			
	viii.	Brake Disc							FTI			
	ix.	Ball joint Control arm							SGA			
	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							SARITA			
	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.	4032	DISPATCH DATE				03.06.2015
2.	Railway	SCR	Type	LWLRRM	Coach No.	14855	
3.	Booked to	SSE/C&W/					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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	90	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT					KBI	
iii.	CDTS					VIBHU	
iv.	SEATS/S&B					RCF	
v.	BODY SIDE DOOR					JBM	
vi.	VESTIBULE SLIDING DOOR					KALSI	
vii.	CREW-GEN & GUARD ROOM DOOR					CONCEPT/JBM	
viii.	WATER TANKS					E C BLADES & SHIVALIK	
ix	FUEL TANK					GAURAV	
x	UIC VESTIBULE					ELASTOMER	
XI	FLOOR BOARD					TAYAL	
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	
			4032		SCR		LWLRRM		14855/C		20-04-2015	
12.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	156328					156327				
	ii.	Frame No.	FIAT-3813					FIAT-3889				
	iii.	Bolster No.	4740-ECBT					4724-ECBT				
	iv.	Axle No.	126427/481		126749/468		128992/986		128809/990			
	v.	Wheel Dia.	917.00	917.00	917.00	917.50	917.00	917.50	917.00	917.50		
	vi.	Wheel Disc No.	194-10584	346-10533	030-11611	150-10583	064-63305	254-63305	021-10533	293-10568		
	vii.	R.B. Nos.	03138	03219	03023	03070	03422	02948	02863	03345		
	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.	G-13-05-053	G-13-05-140	G-13-05-055	G-13-05-146	FSK-15-03-39	G-12-09-326	FSK-15-03-12	G-12-09-198			
ii.	Ht. attest load	511	466	510	467	514	469	514	470			
iii.	Align .deviation	12	12	13	15	6	10	8	12			
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			FSK-14-05			FSK-14-05			FSK	
	iii.	Primary Damper			878,970,859,830			534,978,836,825			GEREP	
	iv.	Secondary damper			892,NIL			861,877			GEREP	
	v.	Lateral Damper			3844			2823			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			H6625/260,18898/261, 11303/260,18897/261			18815/260,18843/261, 18816/260,18844/261			KBI	
	viii.	Brake Disc									FTI	
	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				

LPC-4032