



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4058	DISPATCH DATE			05.9.2014	
2.	Railway	NFR	Type	LWACCN	Coach No.	14120	
3.	Booked to	SSE/C&W/GHY					
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	3.00 ± 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	86/87		
	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			DARSHAN		
	iii.	SEATS/ BERTHS			AAR KAY		
	iv.	BODY SIDE DOOR			JBM		
	v.	VESTIBULE SLIDING DOOR			JBM, KALSI		
	vi.	SALOON DOOR			NA		
	vii.	WATER TANKS			AMIT & KUTEER		
	viii.	UIC VESTIBULE			KRP		
	ix	FLOOR BOARD & PVC			TAYAL & REPONSIVE		
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	
			4058		NF		LWACCN		14120		22-07-2014	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146644						146645			
	ii.	Frame No.	FIAT-3284						FIAT-3299			
	iii.	Bolster No.	4040-P						4041-P			
	iv.	Axle No.	127755/987			126289/474			126044/475		126127/471	
	v.	Wheel Dia.	915.00	915.00	915.00	915.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	002-10559	157-11611	140-10568	041-10583	164-10533	014-10533	184-10559	069-63302		
	vii.	R.B. Nos.	36253	35794	36211	36365	36277	36176	36508	35983		
	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	Outer	Inner	
i.	Make & nos.	G13-5-841	G13-5-4948	G13-5-816	G13-5-4921	G13-5-735	G13-5-4816	G13-5-845	G13-5-4804			
ii.	Ht. attest load	513	467	512	466	514	466	513	467			
iii.	Align .deviation	12	7	13	10	16	21	16	19			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			L&S-03-13			L&S-03-13			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									FTI	
	viii.	Brake Disc									KBI	
	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									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
12.4	i.	Modification / Trial (if any):			NIL							
	ii.	Deviations (if any):			NIL							



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	4056	DISPATCH DATE				05.9.2014
2.	Railway	NFR	Type	LWACCN	Coach No.	14119	
3.	Booked to	SSE/C&W/GHY					
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		3.00 ± 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	86/86	
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		AIR FLOW				
iii.	SEATS/ BERTHS		AAR KAY				
iv.	BODY SIDE DOOR		SUKATA				
v.	VESTIBULE SLIDING DOOR		KALSI				
vi.	SALOON DOOR		NA				
vii.	WATER TANKS		AMIT & KUTEER				
viii.	UIC VESTIBULE		KRP				
ix	FLOOR BOARD & PVC		TAYAL & REPONSIVE				
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			
			4056	NFR	LWACCN	14119	30-07-2014			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	146654				146655			
	ii.	Frame No.	FIAT-3280				FIAT-3326			
	iii.	Bolster No.	4050-P				3843-P			
	iv.	Axle No.	Z-3448		126313/474		126135/471		129007/986	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	111-11611	183-11600	200-11600	193-11605	019-11600	253-63301	322-10533	082-11607
	vii.	R.B. Nos.	36320	35988	35790	36329	35757	36477	35924	36695
	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-13-5-765	G-13-5-5120	G-13-5-783	G-13-5-5191	G-13-5-755	G-13-5-5001	G-13-5-760	G-13-5-5175	
ii.	Ht. attest load	513	466	512	464	513	468	512	466	
iii.	Align .deviation	19	17	17	16	20	21	24	24	
12.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	L&S-02-13		L&S-02-13		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					FTI			
	viii.	Brake Disc					KBI			
	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					EMSON			
	xviii.	Ball joint roll link					SARITA			
	xix.	Fork make					SARITA			
12.4	i.	Modification / Trial (if any):			NIL					
	ii.	Deviations (if any):			NIL					