



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5003	DISPATCH DATE				04.08.2015
2.	Railway	NR	Type	LWACCW	Coach No.	153075	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	52					
5.	Carrying Capacity	Seating	52	Sleeping	52	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	3.00	
			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	89/88	
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					VIBHU	
iii.	SEATS/ BERTHS					SAVITRI	
iv.	BODY SIDE DOOR					JBM	
v.	VESTIBULE SLIDING DOOR					JBM	
vi.	COMPTT.DOOR					KALSI	
vii.	WATER TANKS					AMIT & E C BLADES, SHIVALIK	
viii.	UIC VESTIBULE					ELASTOMER	
ix	FLOOR BOARD					TAYAL	
X	PVC					RESPONSIVE	
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5003	NR	LWACCW	153075/C	/*11-05-2015			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156360				156359			
	ii.	Frame No.	FIAT-3964				FIAT-3529			
	iii.	Bolster No.	4760-P				4769-P			
	iv.	Axle No.	B-9827		B-9893		C-0089		1278218987	
	v.	Wheel Dia.	915.00	915.00	915.00	915.00	915.00	915.00	915.00	915.00
	vi.	Wheel Disc No.	172-63301	060-63307	382-63301	339-63309	232-63307	250-10582	335-10568	150-11611
	vii.	R.B. Nos.	03989	03541	03603	03676	04417	03658	03644	04549
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
12.2	<u>Secondary suspension load deflection Values:</u>									
	Description	Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	CHFJ-14-09-54	CHFJ-14-09-78	CHFJ-14-09-56	CHFJ-14-09-53	CHFJ-14-09-48	CHFJ-14-09-38	CHFJ-14-09-71	CHFJ-14-09-54	
ii.	Ht. at test load	510	467	512	468	512	468	514	468	
iii.	Align .deviation	6	6	7	10	12	15	14	20	
12.3	<u>Items traceability:</u>									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	YR-10-10		YR-10-10		YR			
	ii.	Primary inner Spring	YR-11-10		YR-11-10		YR			
	iii.	Primary Damper	979,963,137,2363		24,230,1755,1744		GEREP			
	iv.	Secondary damper	52,441		13,363		GEREP			
	v.	Lateral Damper	2896		NIL		KONI			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	A15070/600,A15083/600, C15017/600,A15090/600		A15088/600,A15084/600, A15089/600,A15105/600		FTI			
	viii.	Brake Disc					KBI,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					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					



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5011	DISPATCH DATE				04.08.2015
2.	Railway	NR	Type	LWACCW	Coach No.	153078	
3.	Booked to		SSE/C&W/BZA				
4.	Tare Weight of Coach		52				
5.	Carrying Capacity	Seating	52	Sleeping	52	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)	FAIVELEY	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	3.00		
			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	87/89		
	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			VIBHU		
	iii.	SEATS/ BERTHS			AMIR CHAND		
	iv.	BODY SIDE DOOR			SUKATA		
	v.	VESTIBULE SLIDING DOOR			KALSI		
	vi.	COMPTT.DOOR			KALSI		
	vii.	WATER TANKS			E C BLADES,KUTEER		
	viii.	UIC VESTIBULE			ELASTOMER		
	ix	FLOOR BOARD			TAYAL		
	X	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	
			5011		NR		LWACCW		153078/C		02-04-2015	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156262						156263			
	ii.	Frame No.	FIAT-3873						ECBT-906			
	iii.	Bolster No.	4641-P						4648-P			
	iv.	Axle No.	126909/470			125597/377			114783/376		128239/991	
	v.	Wheel Dia.	916.00	916.00	915.00	915.00	915.00	915.00	915.00	915.00	915.00	
	vi.	Wheel Disc No.	368-63307	057-10533	009-10579	146-63307	265-10568	315-10579	051-10568	057-10568		
	vii.	R.B. Nos.	03133	03071	04299	04284	03218	02853	03031	03374		
	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.	CMAFJ-14-09	CMAFJ-14-05	CMAFJ-14-09	CMAFJ-14-05	CMAFJ-14-09	CMAFJ-14-05	CMAFJ-14-09	CMAFJ-14-05	CMAFJ-14-09	CMAFJ-14-05	
ii.	Ht. at test load	512	468	512	468	508	465	510	468			
iii.	Align .deviation	12	20	12	19	20	10	20	07			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			YR-10-10			YR-10-10			YR	
	ii.	Primary inner Spring			FSK-12-12			FSK-12-12			FSK	
	iii.	Primary Damper			384,1480,388,1499			470,333,361,346			GEREP	
	iv.	Secondary damper			277,279			291,240			GEREP	
	v.	Lateral Damper			2893,			2985			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			L14015/600,K14015/600, K14018/600,L14034/600			L14022/600,L14008/600, L14021/600,L14026/600			FTI	
	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,SARITA	
12.4	i.	Modification / Trial (if any):			NIL							
	ii.	Deviations (if any):			NIL							

