



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5035	DISPATCH DATE				14.12.2015
2.	Railway	SCR	Type	LWLRRM	Coach No.	15853	
3.	Booked to	SSE/C&W/SC					
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		GS	88	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
i.	BRAKE EQUIPMENT				KBI		
iii.	CDTS				AIR FLOW		
iv.	SEATS/S&B				GANDHI		
v.	BODY SIDE DOOR				JBM, SUKATA		
vi.	VESTIBULE SLIDING DOOR				HANSPAL		
vii.	CREW-GEN & GUARD ROOM DOOR				CONCEPT/JBM		
viii.	WATER TANKS				KUTEER, MANOJ		
ix	FUEL TANK				GAURAV		
x	UIC VESTIBULE				ESCORTS		
XI	FLOOR BOARD				TAYAL		
XII	PVC				RESPONSIVE		
10.	Modification / Trail (if any):						NIL
10.1	Deviations if any:						NIL
10.2							



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5035		SC		LWLRRM		15853/C		10-11-2015	
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	156853					156854				
	ii.	Frame No.	FIAT-4460					ECBT-998				
	iii.	Bolster No.	5209-P					5196-P				
	iv.	Axle No.	128989/981		127867/987		128090/984		127988/988			
	v.	Wheel Dia.	916.00	916.00	915.00	915.00	916.00	916.00	915.00	915.00		
	vi.	Wheel Disc No.	6228-00045	6228-00037	6207-00089	6208-00188	6211-00129	6211-00014	6211-00132	6232-00014		
	vii.	R.B. Nos.	05298	06050	05720	33745	05819	05308	38548	38544		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	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.		CMBGD-15-6-4	BPS-15-11	CMBGD-15-6-29	BPS-15-11	CMBGD-15-3-34	DN-12-10-244	CMBGD-15-3-38	DN-13-5-313		
ii.	Ht. at test load		508.5	465	509.5	464	515	470	514	470		
iii.	Align .deviation		10	20	11	21	11	10	7	8		
11.3	Items traceability:											
	Sno.	Item	PP Side Bogie			NPP side Bogie			Make			
	i.	Primary Outer Spring	CMFSK-15-6			CMFSK-15-6			CMFSK			
	ii.	Primary inner Spring	G-15-3			G-15-3			GF			
	iii.	Primary Damper	25170,25195,25214,25384			26156,25640,26150,26155			KONI			
	iv.	Secondary damper	4850,4783			4768,4585			KONI			
	v.	Lateral Damper	241			216			GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper	J5845/261,J5802/260 J5846/261,J5805/260			J5847/261,J5819/261 J5848/261,J5818/261			KBI			
	viii.	Brake Disc							FTI			
	ix.	Ball joint Control arm							MGN			
	x.	Lateral Bump stop							MGN			
	xi.	Traction center make							SARITA			
	xii.	Traction lever make							SARITA			
	xiii.	Ball joint traction lever							MGN			
	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			
11.4	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.	5012	DISPATCH DATE				15.12.2015
2.	Railway	SCR	Type	LWLRRM	Coach No.	15854	
3.	Booked to	SSE/C&W/SC					
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	ADVANCE	87		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
i.	BRAKE EQUIPMENT			FAIVELEY			
iii.	CDTS			AIR FLOW			
iv.	SEATS/S&B			GANDHI			
v.	BODY SIDE DOOR			JBM, SUKATA			
vi.	VESTIBULE SLIDING DOOR			HANSPAL			
vii.	CREW-GEN & GUARD ROOM DOOR			CONCEPT/JBM			
viii.	WATER TANKS			KUTEER, SHIVALIK			
ix	FUEL TANK			GAURAV			
x	UIC VESTIBULE			ESCORTS			
XI	FLOOR BOARD			NARBADA			
XII	PVC			RESPONSIVE			
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5012	SC	LWLRRM	15854/C	01-12-2015			
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	156902				156903			
	ii.	Frame No.	FIAT-4390				BEC-040			
	iii.	Bolster No.	4668-VT				4446-GT			
	iv.	Axle No.	129036/986		127778/987		125647/377		126555/481	
	v.	Wheel Dia.	915.50	915.50	915.50	915.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	7172-00098	6207-00145	7147-00118	7172-00030	7172-00091	7150-00029	6228-00076	6207-00042
	vii.	R.B. Nos.	01188	01382	01685	01591	02082	01334	01234	01548
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<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.	GBD-15-5-26	GBD-15-5-NIL	GBD-15-5-18	GBD-15-5-20	GBD-15-5-27	GBD-15-5-26	GBD-15-5-26	GBD-15-5-29	GBD-15-5-29
ii.	Ht. at test load	508.50	464.50	509	467.50	512	468.50	510	471	471
iii.	Align .deviation	12	20	12	27	11	21	12	22	22
11.3	<u>Items traceability:</u>									
	Sno.	Item	PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring	GBD-15-6			GBD-15-6			GBD	
	ii.	Primary inner Spring	GBD-15-6			GBD-15-6			GBD	
	iii.	Primary Damper	0279,0273,0301,0191			0274,0195,0308,0272			KNORR	
	iv.	Secondary damper	0087,0064			0056,0126			KNORR	
	v.	Lateral Damper	00083			0034			KNORR	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper	K15001/2000,H15005/2000 , K15014/2000,H15008/2000			H15013/2000,K15004/2000 0, H15010/2000,K15002/2000 0			FTI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							MGN	
	xi.	Traction center make							SARITA	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							MGN	
	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	
11.4	i.	Modification / Trial (if any):	NIL							
	ii.	Deviations (if any):	NIL							