



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4005	DISPATCH DATE				14.05.2015	
2.	Railway	NR	Type	LFCWAC	Coach No.		153033	
3.	Booked to			SSE/C&W/NDLS				
4.	Tare Weight of Coach			43.6 T				
5.	Carrying Capacity	Seating	38	Sleeping	38	Luggage	NIL	
6.	Shell Details: WA900001							
	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	ADVANCE	88/88			
	8.2	APPLICATION OF PCN-123	SATISFACTORY					
	8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:					Make		
	i.	BRAKE EQUIPMENT				KBI		
	ii.	CDTS/ BIO TOILET				AIKON		
	iii.	SEATS/ BERTHS				AAR KAY FOAMS		
	iv.	BODY SIDE DOOR				SUKATA		
	v.	VESTIBULE SLIDING DOOR				KALSI		
	vi.	SALOON DOOR				KALSI		
	vii.	WATER TANKS				AMIT, SHIVALIK		
	viii.	UIC VESTIBULE				KRP		
	ix	FLOOR BOARD				TAYAL		
	x	PVC FLOORING				RESPONSIVE		
10.								
	i	Modification / Trail (if any):					NIL	
	ii	Deviations if any:					NIL	



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12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4005	NR	LWFAC	153033	13-01-2015			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	147065				147066			
	ii.	Frame No.	FIAT-3707				FIAT-3693			
	iii.	Bolster No.	4417-VT				4433-VT			
	iv.	Axle No.	Z-3361		Z-3674		A-3132		Z-3043	
	v.	Wheel Dia.	917.00	917.00	916.00	916.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	258-16339	052-11610	266-16339	186-633.9	117-11607	278-16339	288-11607	187-51910
	vii.	R.B. Nos.	02907	02946	01422	01412	02909	03196	03005	02877
	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-13-12-15	YR-13-11-6	YR-13-12-74	YR-13-11-69	YR-13-12-21	YR-13-11-62	YR-13-12-24	YR-13-11-63	
ii.	Ht. attest load	511.90	468	510.90	465.20	508.10	469	511.90	469.90	
iii.	Align .deviation	26.57	28.85	26.90	28.56	26.08	39.84	27.21	33.84	
12.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			YR-13-11-105,101,108,100		YR-13-11		YR	
	ii.	Primary inner Spring			YR-13-12-28,33,30,26		YR-13-12		YR	
	iii.	Primary Damper							GEREP	
	iv.	Secondary damper							SACHS	
	v.	Lateral Damper							GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper							KBI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							MGN,GMT	
	x.	Lateral Bump stop							GMT	
	xi.	Traction center make							SARITA	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							SGA,GMT	
	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					

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4002	DISPATCH DATE			13.05.2015	
2.	Railway	NR	Type	LFCWAC	Coach No.	153031	
3.	Booked to			SSE/C&W/NDLS			
4.	Tare Weight of Coach			43.6 T			
5.	Carrying Capacity	Seating	38	Sleeping	38	Luggage	NIL
6.	Shell Details: WA900001						
	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	ADVANCE	87/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT			KBI		
	ii.	CDTS/ BIO TOILET			AIKON		
	iii.	SEATS/ BERTHS			AAR KAY FOAMS		
	iv.	BODY SIDE DOOR			SUKATA		
	v.	VESTIBULE SLIDING DOOR			KALSI		
	vi.	SALOON DOOR			KALSI		
	vii.	WATER TANKS			AMIT, SHIVALIK		
	viii.	UIC VESTIBULE			CEMCON		
	ix	FLOOR BOARD			TAYAL		
	x	PVC FLOORING			RESPONSIVE		
10.							
	i	Modification / Trail (if any):				NIL	
	ii	Deviations if any:				NIL	



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12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4002	NR	LFCWAC	153031	09-01-2015			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156005				156006			
	ii.	Frame No.	FIAT-3712				FIAT-3704			
	iii.	Bolster No.	4398-VT				2781-GT			
	iv.	Axle No.	128519/983		128036/988		Z-3547		A-2972	
	v.	Wheel Dia.	916.00	916.00	917.00	917.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	133-10568	152-63301	313-11603	314-NIL	208-10583	138-10568	107-51915	170-11605
	vii.	R.B. Nos.	36354	36067	02860	03483	02910	03216	03139	03454
	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-13-12-90	YR-13-11-19	YR-13-12-89	YR-13-11-02	YR-13-12-49	YR-13-11-15	YR-13-12-50	YR-13-11-16	
ii.	Ht. attest load	511.00	467.20	507.40	466.30	510.30	467.70	511.60	467.60	
iii.	Align .deviation	34.80	30.57	30.86	36.27	27.86	29.56	27.86	28.79	
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							KBI	
	viii.	Brake Disc							KBI	
	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					

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4004	DISPATCH DATE			14.05.2015
2.	Railway	NR	Type	LFCWAC	Coach No.	153032
3.	Booked to	SSE/C&W/NDLS				
4.	Tare Weight of Coach	43.6 T				
5.	Carrying Capacity	Seating	38	Sleeping	38	Luggage NIL
6.	Shell Details: WA900001					
	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	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	ADVANCE	88/88	
	8.2	APPLICATION OF PCN-123	SATISFACTORY			
	8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:				Make	
	i.	BRAKE EQUIPMENT			KBI	
	ii.	CDTS/ BIO TOILET			DARSHAN	
	iii.	SEATS/ BERTHS			AAR KAY FOAMS	
	iv.	BODY SIDE DOOR			SUKATA	
	v.	VESTIBULE SLIDING DOOR			KALSI	
	vi.	SALOON DOOR			KALSI	
	vii.	WATER TANKS			AMIT, SHIVALIK	
	viii.	UIC VESTIBULE			FRIKMART	
	ix	FLOOR BOARD			TAYAL	
	x	PVC FLOORING			RESPONSIVE	
10.						
	i	Modification / Trail (if any):	NIL			
	ii	Deviations if any:	NIL			



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4004		NR		LFCWAC		153032/C		09/01/2015	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	147081						147082			
	ii.	Frame No.	FIAT-3548						FIAT-3545			
	iii.	Bolster No.	3828-P						4163-BT			
	iv.	Axle No.	105793/627			126396/474			A-3050		C-4331	
	v.	Wheel Dia.	916.00	916.00	916.50	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	206-51912	141-51915	177-51915	298-51915	207-11607	294-11607	285-11611	013-31912		
	vii.	R.B. Nos.	36359	36026	00874	00805	00943	00884	00878	03116		
	viii.	R.B. Make	TIM			TIM			TIM		TIM	
	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-13-12-020	YR-13-11-39	YR-13-12-22	YR-13-11-40	YR-13-12-028	YR-13-11-37	YR-13-12-026	YR-13-11-41			
ii.	Ht. attest load	510.5	463.8	510.8	466.3	510.6	462.2	508.9	464.5			
iii.	Align .deviation	29.6	22.8	30.96	19.88	22.76	33.51	19.08	33.10			
12.3	Items traceability:											
	S no.	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							KBI			
	viii.	Brake Disc							FTI,KBI			
	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							SARITA			
12.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

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