



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6004	DISPATCH DATE			22.05.2017
2.	Railway	WR	Type	LWFAC	Coach No.	16002
3.	Booked to		SSE/C&W/MUMBAI			
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	1103	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	88/86	
	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	RAIL TECH, JSL			
	iii.	SEATS/ BERTHS	AAR KAY FOAMS			
	iv.	BODY SIDE DOOR	JVR			
	v.	VESTIBULE SLIDING DOOR	HP			
	vi.	SALOON DOOR	KALSI			
	vii.	WATER TANKS	AMIT			
	viii.	UIC VESTIBULE	ESCORTS			
	ix	FLOOR BOARD	TAYAL			
	x	PVC FLOORING	RESPONSIVE			
10.						
	i	Modification / Trail (if any):				NIL
	ii	Deviations if any:				NIL



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6004		WR		LWFAC		16002		12-10-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166888						166900			
	ii.	Frame No.	FM-644						FIAT-5222			
	iii.	Bolster No.	6246-GT						6257-GT			
	iv.	Axle No.	N-7017			R-2477			R-2322		R-9512	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.50	917.00	917.50	917.00		
	vi.	Wheel Disc No.	00026-7196	09070-7196	00020-6QH5	03163-6QL7	00118-7301	00015-7198	00030-7198	00210-7198		
	vii.	R.B. Nos.	05796	05353	05327	06196	04970	05553	05616	05415		
	viii.	R.B. Make	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	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.	RSK-16-6-716	ABOK-16-9-01	RSK-15-5-712	ABOK-16-9-07	RSK-16-9-607	RSK-13-2-252	RSK-16-9-721	RSK-13-2-035			
ii.	Ht. at test load	510	468	510	468	511	466	512	466			
iii.	Align .deviation	10	14	11	18	19	47	19	41			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-15-10			RSK-15-10			RSK	
	ii.	Primary inner Spring			RSK-16-3			RSK-16-3			RSK	
	iii.	Primary Damper			4362,4360,4345,4336			4342,4344,4338,4363			KNORR	
	iv.	Secondary damper			0458,0257			0535,0645			SV	
	v.	Lateral Damper			0470			0313			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			4196/691,4185/691 4195/691,4184/691			4128/691,4128/691 4127/691,4125/691			KBI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									EMSON	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									MGN	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TECSPACK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									SARITA	
	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.	6006	DISPATCH DATE				20.05.2017	
2.	Railway	WR	Type	LWFAC	Coach No.	16001		
3.	Booked to		SSE/C&W/MUMBAI					
4.	Tare Weight of Coach		43.6 T					
5.	Carrying Capacity	Seating	24	Sleeping	24	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	85/86		
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						AMIT	
iii.	SEATS/ BERTHS						AAR KAY FOAMS	
iv.	BODY SIDE DOOR						JVR	
v.	VESTIBULE SLIDING DOOR						HANSPAL	
vi.	SALOON DOOR						KALSI	
vii.	WATER TANKS						AMIT, RAIL TECH	
viii.	UIC VESTIBULE						SSIPL	
ix	FLOOR BOARD						NARBADA	
x	PVC FLOORING						RESPONSIVE	
10.								
i	Modification / Trail (if any):					NIL		
ii	Deviations if any:					NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6006		WR		LWFAC		16001		18-11-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	167030						167031			
	ii.	Frame No.	FIAT-5238						FIAT-5268			
	iii.	Bolster No.	6394-P						6377-P			
	iv.	Axle No.	K-3335			R-3381			N-6593		N-0334	
	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.	00133-6110	00059-6110	02291-6QG7	03282-6QL4	00036-6067	00039-6067	00116-6067	00153-6067		
	vii.	R.B. Nos.	29833	34885	29840	34874	02422	35300	29631	02809		
	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.	AFJ-16-9-16	RSK-16-5-601	AFJ-16-9-32	RSK-16-5-848	AFJ-16-9-31	RSK-16-5-742	AFJ-16-9-30	RSK-16-5-675			
ii.	Ht. at test load	511	467	512	468	512	466	512	467			
iii.	Align .deviation	20	32	20	35	16	30	13	27			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-14-5			RSK-14-5			RSK	
	ii.	Primary inner Spring			RSK-16-3			RSK-16-3			RSK	
	iii.	Primary Damper			4011,4231,3873,3852			4189,3958,4017,4123			KNORR	
	iv.	Secondary damper			0475,0668			0443,0477			SV	
	v.	Lateral Damper			0019			0383			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			K16049/600,K16069/600 K16048/600,K16065/600			K16042/600,K16330/600 K16046/600,K16327/600			FTI	
	viii.	Brake Disc									KBI,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									SGA	
	xiv.	Traction centre elastic									SGA	
	xv.	Secondary rubber pad									TECSPACK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									SARITA	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									EMSON	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

LWFAC-6006

