



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5064	DISPATCH DATE				29.02.2016
2.	Railway	NR	Type	LWACCN	Coach No.	163136	
3.	Booked to	SSE/C&W/NDLS					
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		3.80 ± 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	NEROLAC	86/87		
	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	
	iii.	SEATS/ BERTHS				RAJEDER DASS	
	iv.	BODY SIDE DOOR				SUKATA	
	v.	VESTIBULE SLIDING DOOR				HANSPAL	
	vi.	SALOON DOOR				KALSI	
	vii.	WATER TANKS				KUTEER, SHIVALIK	
	viii.	UIC VESTIBULE				ESCORT	
	ix	FLOOR BOARD				NARBADA	
	X	PVC				RESPONSIVE	
10.							
	10.1	Modification / Trail (if any):			FITTED WITH BIO DIGESTER OF M/s RAIL FAB		
	10.2	Deviations if any:			NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5064		NR		LACCN		163136		09-01-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166029						166030			
	ii.	Frame No.	FIAT-4293						FIAT-4499			
	iii.	Bolster No.	5426-VT						5414-VT			
	iv.	Axle No.	126781/468		126233/471		127882/987		126149/471			
	v.	Wheel Dia.	915.00	915.50	915.00	915.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	6226-00103	07297-00192	6228-00003	6221-00053	7282-00096	7282-00165	6221-00085	6221-00070	6221-00085	6221-00070
	vii.	R.B. Nos.	01792	01230	01794	05084	03717	01582	02318	02224	02318	02224
	viii.	R.B. Make	TIMKEN		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.	CMAFJ-15-12-32	RSK-NIL-346	CMAFJ-15-12-29	RSK-NIL-036	CMAFJ-15-12-8	RSK-NIL-466	CMAFJ-15-12-3	RSK-NIL-265			
ii.	Ht. at test load	513	464	514	466	514	467	515	467			
iii.	Align .deviation	9	42	8	34	5	36	7	39			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-13-2			RSK-13-2			RSK	
	ii.	Primary inner Spring			FSK-15-5			FSK-15-5			FSK	
	iii.	Primary Damper			2041,2130,2230,2039			2026,2099,2233,2234			GEREP	
	iv.	Secondary damper			4245,4569			4785,4514			KONI	
	v.	Lateral Damper			595			567			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1874/691,1935/691 1872/691,1934/691			1857/691,1918/691 1855/691,1921/691			KBI	
	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									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	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5065	DISPATCH DATE				01.03.2016
2.	Railway	NR	Type	LWACCN	Coach No.	163137	
3.	Booked to	SSE/C&W/NDLS					
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	3.80 ± 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	NEROLAC	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			RAIL TECH		
	iii.	SEATS/ BERTHS			RAJEDER DASS		
	iv.	BODY SIDE DOOR			SUKATA , JBM		
	v.	VESTIBULE SLIDING DOOR			KALSI		
	vi.	SALOON DOOR			KALSI		
	vii.	WATER TANKS			SHIVALIK, SHIVALIK		
	viii.	UIC VESTIBULE			ESCORT/ SUNCREAST		
	ix	FLOOR BOARD			NARBADA		
	X	PVC			RESPONSIVE		
10.							
	10.1	Modification / Trail (if any):			FITTED WITH BIO DIGESTER OF M/s RAIL FAB		
	10.2	Deviations if any:			NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5065		NR		LACCN		163137		11-01-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166031						166032			
	ii.	Frame No.	FIAT-4538						FIAT-4532			
	iii.	Bolster No.	5429-VT						5415-VT			
	iv.	Axle No.	129105/992		128391/983		126773/468		126599/480			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00		
	vi.	Wheel Disc No.	6227-00061	6227-00005	7222-00037	6227-00188	6221-00202	6210-00112	06230-00026	6210-00108		
	vii.	R.B. Nos.	01124	03336	01226	03308	01362	01563	06115	01795		
	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.	CMAFJ-15-12-8	RSK-15-10-438	CMAFJ-15-12-22	RSK-15-10-395	CMAFJ-15-12-20	RSK-15-10-350	CMAFJ-15-12-30	RSK-15-10-7			
ii.	Ht. at test load	514	465	514	468	510	468	510	465			
iii.	Align .deviation	5	5	8	11	7	30	10	33			
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			FSK-15-6			FSK-15-6			FSK	
	iii.	Primary Damper			2034,2236,2050,2085			2198,2202,2166,2043			GEREP	
	iv.	Secondary damper			4563,4595			4871,4506			KONI	
	v.	Lateral Damper			622			625			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			L15093/600,L15140/600 L15088/600,L15144/600			K15146/600,K15156/600 L15149/600,L15162/600			FTI	
	viii.	Brake Disc									FTI	
	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									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	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5031	DISPATCH DATE				23.02.2016
2.	Railway	NR	Type	LWACCN	Coach No.	163134	
3.	Booked to	SSE/C&W/NDLS					
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		1102	1104		
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			3.80 ± 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		APC	85/88		
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					RAIL TECH	
iii.	SEATS/ BERTHS					AAR KAY FOAMS	
iv.	BODY SIDE DOOR					SUKATA	
v.	VESTIBULE SLIDING DOOR					KALSI	
vi.	SALOON DOOR					KALSI	
vii.	WATER TANKS					KUTEER, SHIVALIK	
viii.	UIC VESTIBULE					FRIKMART	
ix	FLOOR BOARD					TAYAL	
X	PVC					RESPONSIVE	
10.							
10.1	Modification / Trail (if any):	FITTED WITH BIO DIGESTER OF M/s RAIL FAB					
10.2	Deviations if any:	NIL					



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5031	NR	LACCN	163134	07-01-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166020				166021			
	ii.	Frame No.	FIAT-4552				FIAT-4522			
	iii.	Bolster No.	5420-VT				5371-VT			
	iv.	Axle No.	126704/468		125579/377		128915/990		128214/984	
	v.	Wheel Dia.	916.00	916.00	915.00	915.00	916.00	916.00	915.50	915.00
	vi.	Wheel Disc No.	06226-00082	06226-00085	06228-00060	06228-00044	06234-00141	6221-00192	06234-00036	21746-027
	vii.	R.B. Nos.	07056	03503	01825	01373	07419	02402	03269	05017
	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.	CMFSK-15-9-18	RSK-15-10-334	CMFSK-15-9-3	RSK-15-10-356	CMFSK-15-9-47	RSK-15-10-245	CMFSK-15-9-30	RSK-15-10-460	
ii.	Ht. at test load	513	468	512	468	515	465	515	467	
iii.	Align .deviation	8	29	9	32	7	33	11	36	
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			G-15-3		FSK-15-6		GF,FSK	
	iii.	Primary Damper			147,141,66,15		284,270,402,241		GEREP	
	iv.	Secondary damper			442,1526		1501,433		GEREP	
	v.	Lateral Damper			206		30		GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			K15006/600,K15027/600 K15001/600,K15027/600		L15138/600,L15143/600 L15144/600,L15135/600		FTI	
	viii.	Brake Disc							FTI,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							GMT	
	xiv.	Traction centre elastic							SGA	
	xv.	Secondary rubber pad							WINLANE	
	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.	5063	DISPATCH DATE				26.2.2016
2.	Railway	NR	Type	LWACCN	Coach No.	163135	
3.	Booked to	SSE/C&W/NDLS					
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	1104	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	3.80 ± 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	NEROLACK	85/87		
	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	RAIL TECH				
	iii.	SEATS/ BERTHS	RAJENDER DASS				
	iv.	BODY SIDE DOOR	SUKATA & JBM				
	v.	VESTIBULE SLIDING DOOR	HANSPAL				
	vi.	SALOON DOOR	J R INDUSTRIES				
	vii.	WATER TANKS	KUTEER & SHIVALIK				
	viii.	UIC VESTIBULE	ESCORT				
	ix	FLOOR BOARD	NARBADA				
	X	PVC	RESPONSIVE				
10.							
	10.1	Modification / Trail (if any):	FITTED WITH BIO DIGESTER OF M/s RAIL FAB				
	10.2	Deviations if any:	NIL				



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5063		NR		LACCN		163135		11-01-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166035						166036			
	ii.	Frame No.	FIAT-4476						FIAT-4572			
	iii.	Bolster No.	5424-VT						5344-VT			
	iv.	Axle No.	128936/986		126631/480		128316/991		129139/992			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00		
	vi.	Wheel Disc No.	7273-00009	7282-00156	6227-00070	6227-00087	7222-00046	6227-00035	7222-00045	7290-00057		
	vii.	R.B. Nos.	06057	01223	01450	04310	01546	01437	04152	03945		
	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.	CMAFJ-15-12-2	RSK-15-10-190	CMAFJ-15-12-36	RSK-15-10-443	CMAFJ-15-12-17	RSK-15-10-241	CMAFJ-15-12-35	RSK-15-10-251			
ii.	Ht. at test load	514	464	515	465	515	467	515	467			
iii.	Align .deviation	5	27	8	31	10	45	10	46			
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			GBD-15-9			GBD-15-9			GBD	
	iii.	Primary Damper			2170,2029,2116,2064			2193,2237,2150,2045			GEREP	
	iv.	Secondary damper			4520,4136			4572,4343			GEREP	
	v.	Lateral Damper			589			909			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			K15025/600,K15031/600 K15028/600,K15036/600			H15189/600,K15003/600 H15167/600,K15007/600			FTI	
	viii.	Brake Disc									FTI	
	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									SGA	
	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	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

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