



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5069	DISPATCH DATE				14.01.2016
2.	Railway	WR	Type	LWACCN	Coach No.	16101	
3.	Booked to	SSE/C&W/BCT/M					
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					RAILTECH	
iii.	SEATS/ BERTHS					AAR KAY FOAMS	
iv.	BODY SIDE DOOR					SUKATA & JBM	
v.	VESTIBULE SLIDING DOOR					KALSI	
vi.	SALOON DOOR					KALSI	
vii.	WATER TANKS					KUTEER,MANOJ & SHIVALIK	
viii.	UIC VESTIBULE					ESCORTS	
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		



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5069		WR		LACCN		16101		05-11-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156837						156838			
	ii.	Frame No.	FIAT-4321						VS-28			
	iii.	Bolster No.	5230-P						5213-P			
	iv.	Axle No.	126481/481		128130/984		129318/982		127989/988			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.50	916.50	916.50		
	vi.	Wheel Disc No.	6211-00091	6225-00064	06222-00191	6213-00111	06222-00165	7150-00171	7150-00140	6222-00031		
	vii.	R.B. Nos.	34720	34716	34721	34975	34774	34766	03163	34744		
	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.	GBD-15-02-19	RSK-15-3-825	GBD-15-02-60	RSK-15-3-888	GBD-15-3-56	RSK-15-3-351	GBD-15-03-74	RSK-15-3-80			
ii.	Ht. at test load	510	466	511	468	512.50	467	512.50	468			
iii.	Align .deviation	11	9	7	8	8	31	8	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			G-15-3			G-15-3			GF	
	iii.	Primary Damper			25263,25227,25352,25212			25345,25229,25233,25281			KONI	
	iv.	Secondary damper			451,458			454,823			GEREP	
	v.	Lateral Damper			330			360			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1811/691,1838/691,1810/691,1356/691			1099/691,1639/691,1100/691,1168/691			KBI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									GMT	
	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									MGN	
	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				

LWACCN-5069



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5036	DISPATCH DATE			14.01.2016	
2.	Railway	WR	Type	LWACCN	Coach No.	16103	
3.	Booked to	SSE/C&W/BCT/M					
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	GS	87/86		
	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	RAILFAB				
	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	SUNCREAST				
	ix	FLOOR BOARD	TAYAL				
	X	PVC	RESPONSIVE				
10.	Modification / Trail (if any):					FITTED WITH BIO DIGESTER OF M/s RAIL FAB	
	10.1	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5036		WR		LACCN		16103		30-11-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156918						156919			
	ii.	Frame No.	FIAT-4487						FIAT-4426			
	iii.	Bolster No.	5281-P						5295-P			
	iv.	Axle No.	126623/480		126844/470		129300/982		114163/374			
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	6228-00096	6192-00002	6228-00001	7172-00072	06228-00195	06228-00069	7172-00152	6225-00049		
	vii.	R.B. Nos.	01610	01201	01109	04967	02077	02338	02061	01352		
	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.	GBD-15-3-24	GBD-15-5-370	GBD-15-3-12	GBD-15-5-480	GBD-15-3-49	GBD-15-5-362	GBD-15-3-21	GBD-15-5-347			
ii.	Ht. at test load	515	467	515	464	512	464	514	464			
iii.	Align .deviation	9	28	10	34	9	43	12	44			
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-14-5			FSK-14-5			FSK	
	iii.	Primary Damper			0198,0233,0243,0315			0196,0283,0296,0317			KNORR	
	iv.	Secondary damper			0161,0050			0101,0062			KNORR	
	v.	Lateral Damper			00095			0054			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1833/691,1893/691,1832/691,1897/691			1829/691,1889/691,1828/691,1888/691			KBI	
	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									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				

LWACCN-5036



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5046	DISPATCH DATE				15.01.2016
2.	Railway	WR	Type	LWACCN	Coach No.	16102	
3.	Booked to	SSE/C&W/BCT/M					
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	Max Pressure in BC	6 -10 sec	6 Sec		
		All Brake are applied	3.80 ± 0.15 Kg/cm ²	OK	3.80		
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	86/88			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:		Make				
i.	BRAKE EQUIPMENT		ESCORTS				
ii.	CDTS/ BIO TOILET		RAIL FAB				
iii.	SEATS/ BERTHS		AAR KAY FOAMS				
iv.	BODY SIDE DOOR		SUKATA				
v.	VESTIBULE SLIDING DOOR		KALSI				
vi.	SALOON DOOR		KALSI				
vii.	WATER TANKS		KUTEER, MANOJ				
viii.	UIC VESTIBULE		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			



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5046		WR		LACCN		16102		08-12-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156877						156878			
	ii.	Frame No.	FIAT-4413						ECBT-1000			
	iii.	Bolster No.	4984-VT						5228-P			
	iv.	Axle No.	126366/474		128295/991		126243/471		128911/990			
	v.	Wheel Dia.	917.00	917.00	916.00	916.00	916.00	916.00	916.50	916.00		
	vi.	Wheel Disc No.	7150-00124	6207-00218	06228-00139	7150-00170	6202-00150	6211-00179	6222-00161	6207-00176		
	vii.	R.B. Nos.	21635	16889	06718	38552	22025	01250	16672	38487		
	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.	GBD-15-3-70	DN-12-6-1557	GBD-15-3-61	DN-12-6-1531	GBD-15-3-3	DN-12-6-1337	GBD-15-3-65	DN-12-6-1546			
ii.	Ht. at test load	514	467	514.50	461	513	464	515	466			
iii.	Align .deviation	7	7	10	8	7	1	8	6			
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			G-15-3			GF	
	iii.	Primary Damper			0270,0221,0390,0332			0260,0384,0355,0385			KNORR	
	iv.	Secondary damper			0138,0146			0155,0070			KNORR	
	v.	Lateral Damper			0051			00079			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			29831/16045,30080/16125 29836/16046,30083/16124			29847/16061,30099/16122 29843/16062,30082/16121			ESCORTS	
	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

LWACCN-5046