



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4016	DISPATCH DATE			03.06.2015	
2.	Railway	NR	Type	LWFAC	Coach No.	153005	
3.	Booked to		SSE/C&W/NDLS				
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	1102	
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		VIBGYOR	89/90	
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 FAB				
iii.	SEATS/ BERTHS		AAR KAY FOAMS				
iv.	BODY SIDE DOOR		SUKATA				
v.	VESTIBULE SLIDING DOOR		KALSI				
vi.	SALOON DOOR		KALSI				
vii.	WATER TANKS		SHIVALIK, KUTEER				
viii.	UIC VESTIBULE		FRIKMART				
ix	FLOOR BOARD		NARBADA				
x	PVC FLOORING		RESPONSIVE				
10.							
i	Modification / Trail (if any):				NIL		
ii	Deviations if any:				NIL		

LWFAC-4016



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4016	NR	LWFAC	153005	12-07-2014			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	146609				146608			
	ii.	Frame No.	FIAT-3291				FIAT-3296			
	iii.	Bolster No.	3838-P				3589-P			
	iv.	Axle No.	129028/986		114575/370		127985/988		126971/476	
	v.	Wheel Dia.	915.00	915.00	915.00	915.00	915.00	915.00	916.00	915.50
	vi.	Wheel Disc No.	042-11600	070-11611	249-11607	314-10579	118-11600	035-11600	123-11610	154-10579
	vii.	R.B. Nos.	36275	36019	36357	35863	36628	35802	35789	36132
	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.	DN-12-13-3045	DN-12-13-1869	DN-12-13-3044	DN-12-13-1844	DN-12-13-3084	DN-12-13-1837	DN-12-13-2965	DN-12-13-1915	
ii.	Ht. attest load	509	463	508	465	507	464	506	468	
iii.	Align .deviation	26	11	26	7	17	8	18	13	
12.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			L&S-3-13		L&S-3-13		L&S	
	ii.	Primary inner Spring			L&S-3-13		L&S-3-13		L&S	
	iii.	Primary Damper							KONI	
	iv.	Secondary damper							SACHS	
	v.	Lateral Damper							SACHS	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			D15023/600,D15024/600, D15034/600,D15036/600		D15033/600,A15042/600, D15031/600,D15002/600		FTI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							SGA	
	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							SGA	
	xv.	Secondary rubber pad							TESPAK	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							SARITA	
	xviii.	Ball joint roll link							SARITA	
	xix.	Fork make							EMSON	
12.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4013	DISPATCH DATE				27.08.2015
2.	Railway	NR	Type	LWFAC	Coach No.	153008	
3.	Booked to		SSE/C&W/NDLS				
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)		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		VIBGYOR	87/90	
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				ORIENTAL		
iii.	SEATS/ BERTHS				AAR KAY FOAMS		
iv.	BODY SIDE DOOR				SUKATA		
v.	VESTIBULE SLIDING DOOR				KALSI		
vi.	SALOON DOOR				KALSI		
vii.	WATER TANKS				E C BLADES, MANOJ		
viii.	UIC VESTIBULE				ELASTOMER		
ix	FLOOR BOARD				NARBADA		
x	PVC FLOORING				RESPONSIVE		
10.							
i	Modification / Trail (if any):				NIL		
ii	Deviations if any:				NIL		



12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4013		NR		LWFAC		153008/C		23-07-2015	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156502						156503			
	ii.	Frame No.	FIAT-4139						FIAT-4110			
	iii.	Bolster No.	4856-VT						4852-VT			
	iv.	Axle No.	128083/984			C-4804			125788/473		129175/992	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	915.00	915.00		
	vi.	Wheel Disc No.	6147-00030	6147-00048	6147-00116	6147-00047	6147-00142	6147-00150	06146-00177	06146-00214		
	vii.	R.B. Nos.	24119	24109	25197	24383	25679	24376	25213	25218		
	viii.	R.B. Make	SKF			SKF			SKF		SKF	
	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.	DN-13-10-3077	G-12-11-3873	DN-13-10-3101	G-12-11-3768	DN-13-01-3012	G-12-11-3865	DN-13-01-2888	G-12-11-3764			
ii.	Ht. at test load	507	466	508	466	509	466	507	466			
iii.	Align .deviation	15	4	14	4	17	8	20	10			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-14-03			RSK-14-03			RSK	
	ii.	Primary inner Spring			RSK-14-05			RSK-14-05			RSK	
	iii.	Primary Damper			0075,0074,0076,0071			0078,0073,0072,0077			K/B	
	iv.	Secondary damper			00011,00013			00012,00014			K/B	
	v.	Lateral Damper			00023			00022			K/B	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1214/691,1296/691,1211/691,1297/691			1216/691,1295/691,1215/691,1294/691			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									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									SARITA	
12.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

LWFAC-4013



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4014	DISPATCH DATE				04.06.2015
2.	Railway	NR	Type	LWFAC	Coach No.	153004	
3.	Booked to	SSE/C&W/NDLS					
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)		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		VIBGYOR	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				ORIENTAL		
iii.	SEATS/ BERTHS				AAR KAY FOAMS		
iv.	BODY SIDE DOOR				SUKATA, JBM		
v.	VESTIBULE SLIDING DOOR				KALSI		
vi.	SALOON DOOR				KALSI		
vii.	WATER TANKS				SHIVALIK		
viii.	UIC VESTIBULE				ELASTOMER		
ix	FLOOR BOARD				TAYAL		
x	PVC FLOORING				RESPONSIVE		
10.							
i	Modification / Trail (if any):				NIL		
ii	Deviations if any:				NIL		



12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date		
			4014		NR		LWFAC		153004/C		23-01-2015		
12.1	Wheel & Axle Details:		PP Side				NPP Side						
	i.	Bogie No.	156072				156073						
	ii.	Frame No.	SCI-FM-93				SCI-FM-85						
	iii.	Bolster No.	4457-GT				3969-P						
	iv.	Axle No.	C-4032		B-9700		C-0034		C-4146				
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.00	917.00	917.00	917.00	917.00	
	vi.	Wheel Disc No.	104-10582	160-10582	049-63309	235-51912	253-63309	280-11610	07745-00163	07745-00052	07745-00052	07745-00052	
	vii.	R.B. Nos.	03483	03118	03438	02867	03019	03024	03408	03292	03408	03292	
	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	Outer	Inner	
i.	Make & nos.	CMFSK-12-10-127	G-12-8-3107	CMFSK-12-10-126	G-12-8-2854	CMFSK-12-10-125	G-12-8-2822	CMFSK-12-10-128	G-12-8-2834	CMFSK-12-10-128	G-12-8-2834	G-12-8-2834	
ii.	Ht. attest load	512	466	510.5	468	509.8	466	507	466	507	466	466	
iii.	Align .deviation	17	15	18	18	12	30	10	25	10	25	25	
12.3	Items traceability:												
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make		
	i.	Primary Outer Spring			CMRSK-13-6			CMRSK-13-6			RSK		
	ii.	Primary inner Spring			CMRSK-12-13			CMRSK-11-5			RSK		
	iii.	Primary Damper			22447,23208,23228,22390			22338,22776,22376,22412			KONI		
	iv.	Secondary damper			499,446			250,479			GEREP		
	v.	Lateral Damper			509			503			GEREP		
	vi.	Yaw Damper									NIL		
	vii.	Brake cylinder & Caliper			15376/691,15447/691,15377/691,15446/691			16208/691,15900/691,16216/691,15902/691			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									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					



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4018	DISPATCH DATE				07.08.2015
2.	Railway	NR	Type	LWFAC	Coach No.	153007	
3.	Booked to		SSE/C&W/NDLS				
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)		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		VIBGYOR	87/88	
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				AMIT		
iii.	SEATS/ BERTHS				AAR KAY FOAMS		
iv.	BODY SIDE DOOR				JBM		
v.	VESTIBULE SLIDING DOOR				KALSI		
vi.	SALOON DOOR				KALSI		
vii.	WATER TANKS				E C BLADES, 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				



12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4018		NR		LWFAC		153007/C		03-07-2015	
12.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	156427					156428				
	ii.	Frame No.	FIAT-3989					FIAT-3984				
	iii.	Bolster No.	GTA/ASR-150					4725-ECBT				
	iv.	Axle No.	C-4563		126258/471			C-4750		RWF-90718		
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	915.00	915.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	308-10582	130-10570	029-10582	338-63309	287-10568	011-63309	182-63307	154-10568		
	vii.	R.B. Nos.	04501	04447	04413	03865	04010	03639	03660	03730		
	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.	DN-12-8-T-2205	G-13-5-4990	DN-12-T-1130	G-13-5-4852	DN-12-9-T-2754	G-13-5-4972	DN-12-9-T-2196	G-13-5-487			
ii.	Ht. at test load	509	466	508	466	506	467	504	467			
iii.	Align .deviation	15	11	12	11	14	12	13	13			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			YR-10-10			YR-10-10			YR	
	ii.	Primary inner Spring			YR-10-11			YR-10-11			YR	
	iii.	Primary Damper			1433,2451,2406,2456			2447,2436,1643,2503			GEREP	
	iv.	Secondary damper			4889,4188			4444,4562			KONI	
	v.	Lateral Damper			2766			2871			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			E15056/600,E15076/600, E15067/600,E15075/600			E15062/600,E15070/600, E15042/600,E15073/600			FTI	
	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									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									SARITA	
12.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5001	DISPATCH DATE				08.06.2015
2.	Railway	NR	Type	LWFAC	Coach No.	153006	
3.	Booked to		SSE/C&W/NDLS				
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		1100	1100	
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		ADVANCE	86/89	
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				SIL		
iii.	SEATS/ BERTHS				AAR KAY FOAMS		
iv.	BODY SIDE DOOR				JBM		
v.	VESTIBULE SLIDING DOOR				KALSI		
vi.	SALOON DOOR				KALSI		
vii.	WATER TANKS				E C BLADES,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				



12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5001		NR		LWFAC		153006/C		04-04-2015	
12.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	156268					156269				
	ii.	Frame No.	FIAT-3883					FIAT-3839				
	iii.	Bolster No.	4638-P					4690-VT				
	iv.	Axle No.	125848/477		128938/986			125582/377		129328/982		
	v.	Wheel Dia.	916.00	916.00	916.50	916.50	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	159-10559	019-10570	269-10533	056-10583	109-11611	163-63301	068-63301	315-10559		
	vii.	R.B. Nos.	25829	30135	24936	41436	24928	02797	24294	30253		
	viii.	R.B. Make	SKF		SKF			SKF		SKF		
	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.		CMAFJ-14-09-44	CMAFJ-14-05-86	CMAFJ-14-09-98	CMAFJ-14-05-90	CMAFJ-14-09-76	CMAFJ-14-05-60	CMAFJ-14-09-15	CMAFJ-14-05-63		
ii.	Ht. at test load		512	468	512	468	512	468	512	468		
iii.	Align .deviation		15	5	12	3	17	10	16	10		
12.3	Items traceability:											
	Sno.	Item	PP Side Bogie				NPP side Bogie				Make	
	i.	Primary Outer Spring	RSK-13F-03R				RSK-13F-03R				RSK	
	ii.	Primary inner Spring	RSK-13F-02R				RSK-13F-02R				RSK	
	iii.	Primary Damper	973,362,1704,340				1471,1494,2226,2447				GEREP	
	iv.	Secondary damper	306,359				256,285				GEREP	
	v.	Lateral Damper	2956				2836				KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper	N14002/600,N14052/600 N14006/600,A15023/600				N14067/600,N14065/600 N14062/600,N14021/600				FTI	
	viii.	Brake Disc									FTI	
	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					

LWFAC-5001



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4012	DISPATCH DATE				07.05.2015	
2.	Railway	NR	Type	LWFAC	Coach No.		153003	
3.	Booked to			SSE/C&W/NDLS				
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)		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			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			SHIVALIK, KUTEER				
viii.	UIC VESTIBULE			FRIKMART				
ix	FLOOR BOARD			NARBADA				
x	PVC FLOORING			RESPONSIVE				
10.								
i	Modification / Trail (if any):			NIL				
ii	Deviations if any:			NIL				



12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4012		NR		LWFAC		153003/C		08-01-2015	
12.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	156020					156021				
	ii.	Frame No.	FIAT-3708					FIAT-3675				
	iii.	Bolster No.	4362-VT					4438-GT				
	iv.	Axle No.	A-2812		A-3063			A-2818		A-2870		
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	205-11605	030-11607	329-11610	223-11896	179-11605	324-11605	323-11610	020-11611	020-11611	020-11611
	vii.	R.B. Nos.	00859	00929	36537	36287	00993	01135	01326	00985	00985	00985
	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	Outer	Inner
i.	Make & nos.		YR-13-12-53	YR-13-06-06	YR-13-12-55	YR-13-06-159	YR-13-12-056	YR-13-06-166	YR-13-12-054	YR-13-06-162	YR-13-12-054	YR-13-06-162
ii.	Ht. attest load		509.40	467.20	509.50	467.20	508.70	466.50	508.90	466.80	508.90	466.80
iii.	Align .deviation		31.36	26.52	30.70	21.47	25.22	17.43	24.13	14.35	24.13	14.35
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									FTIBI	
	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									GMT	
	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	
12.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

