



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5019	DISPATCH DATE				26.10.2015
2.	Railway	ER	Type	LWCBAC	Coach No.	15803	
3.	Booked to	SSE/C&W/LILUAH					
4.	Tare Weight of Coach	40.9 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	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	1100			
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	ADVANCE	86/88			
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 TECH					
iii.	SEATS/ BERTHS	AMIR CHAND					
iv.	BODY SIDE DOOR	JBM					
v.	VESTIBULE SLIDING DOOR	KALSI					
vi.	SALOON DOOR	KALSI					
vii.	WATER TANKS	E C BLADES, KUTEER, SHIVALIK					
viii.	UIC VESTIBULE	SUNCREAST					
ix	FLOOR BOARD	TAYAL					
X	PVC	RESPONSIVE					
Xi	LP SHEET	NA					
10.							
10.1	Modification / Trail (if any):	NIL					
10.2	Deviations if any:	NIL					



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5019	ER	LWCBAC	15803/C	30-09-2015			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156718				156719			
	ii.	Frame No.	SCI/FM-173				SCI-FM-180			
	iii.	Bolster No.	5072-GT				4993-VT			
	iv.	Axle No.	128234/991	128834/990	127023/476	128102/994				
	v.	Wheel Dia.	915.00	915.00	915.00	915.00	915.00	915.00	915.00	915.00
	vi.	Wheel Disc No.	6213-00195	6148-00141	6232-00035	6213-00204	6232-00088	6232-00083	6148-00010	6146-00035
	vii.	R.B. Nos.	35062	35018	33994	30503	02254	22960	02292	22945
	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.	DN-12-6-1497	DN-12-5-1504	DN-12-5-1560	DN-12-6-1496	DN-12-5-1589	DN-12-6-1472	DN-12-5-1626	DN-12-6-1503	
ii.	Ht. at test load	505	467	505	464	507	464	508	463	
iii.	Align .deviation	19	4	20	8	18	3	19	9	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	L&S-13-3		L&S-13-3		L&S			
	ii.	Primary inner Spring	L&S-13-2		L&S-13-2		L&S			
	iii.	Primary Damper	25570,26111,26211,26202		25618,26126,26159,26160		KONI			
	iv.	Secondary damper	5339,5355		5223,5165		KONI			
	v.	Lateral Damper	381		593		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	1219/691,1304/691,1217/691,1305/691		1613/691,1672/691,1670/691,1731/691		KBI			
	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					SGA,GMT			
	xiv.	Traction centre elastic					GMT,SGA			
	xv.	Secondary rubber pad					TESPAK			
	xvi.	Rubber spring					GMT			
	xvii.	Anti roll bar make					SARITA, EMSON			
	xviii.	Ball joint roll link					SARITA			
	xix.	Fork make					SARITA			
11.4	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.	5018	DISPATCH DATE				07.11.2015
2.	Railway	ER	Type	LWCBAC	Coach No.	15805	
3.	Booked to	SSE/C&W/LILUAH					
4.	Tare Weight of Coach	40.9 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	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	ADVANCE	86/87			
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 FAB					
iii.	SEATS/ BERTHS	AMIR HAND					
iv.	BODY SIDE DOOR	JBM					
v.	VESTIBULE SLIDING DOOR	KALSI					
vi.	SALOON DOOR	KALSI					
vii.	WATER TANKS	E C BLADES, KUTEER, SHIVALIK					
viii.	UIC VESTIBULE	SUNCREAST					
ix	FLOOR BOARD	TAYAL					
X	PVC	RESPONSIVE					
Xi	LP SHEET	NA					
10.							
10.1	Modification / Trail (if any):	NIL					
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	
			5018		ER		LWBAC		15805		03-10-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156722						156725			
	ii.	Frame No.	FIAT-4329						RAB/7/4			
	iii.	Bolster No.	5087-GT						5140-GT			
	iv.	Axle No.	114933/369		128814/990		125940/477		129180/992			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	915.00	915.00	916.00	916.00		
	vi.	Wheel Disc No.	6191-00087	6212-00175	6118-00105	6118-00150	6207-00120	6232-00028	6229-00735	06149-00210		
	vii.	R.B. Nos.	03170	02223	34421	29557	34677	03188	03180	03166		
	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.		DN-12-5-1510	DN-12-6-1525	DN-12-5-1575	DN-12-6-1519	DN-12-9-2884	DN-12-6-1471	DN-12-9-2288	DN-12-6-1443		
ii.	Ht. at test load		509	463	510	466	509	465	510	464		
iii.	Align .deviation		20	8	22	9	21	3	21	4		
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			L&S-13-2			L&S-13-2			L&S	
	ii.	Primary inner Spring			L&S-13-2			L&S-13-2			L&S	
	iii.	Primary Damper			25758,25535,25616,26007			25535,26062,26094,26076			KONI	
	iv.	Secondary damper			6038,5818			6017,5558			KONI	
	v.	Lateral Damper			365			58			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			15123/600,15162/600,15136/600,15163/600			H15176/600,H15157/600,H15177/600,H15159/600			FTI	
	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									SGA,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	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

LWCBAC-5018