



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5008	DISPATCH DATE				14.01.2016
2.	Railway	SCR	Type	LWSCZ	Coach No.	15616	
3.	Booked to	SSE/C&W/SC					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
	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	NA	
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	85/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT				FAVELLY	
	iii.	CDTS				RAIL TECH	
	iv.	SEAT & BERTH				SATLUJ	
	v.	BODY SIDE DOORS				sukata	
	vi.	SALOON COMPTT DOORS				NA	
	vii.	VESTIBULE SLIDING DOOR				KALSI	
	viii.	WATER TANKS				RAIL FAB	
	ix	UIC VESTIBULE				ESCORTS	
	x	LUGGAGE RACK				RAIL TECH	
	XI	FLOOR BOARD				TAYAL	
	XII	PVC				RESPONSIVE	
	XIII	LP SHEET				PUNJAB LAMINATE	
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5008	SC	LWSCZ	15616/C	28-11-2015			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156914				156915			
	ii.	Frame No.	BEC-054				BEC-043			
	iii.	Bolster No.	5294-P				5290-P			
	iv.	Axle No.	A-2820		C-4016		125777/473		126757/468	
	v.	Wheel Dia.	918.00	918.00	916.00	916.00	916.00	916.00	915.00	915.00
	vi.	Wheel Disc No.	06228-00160	7172-00043	6228-00007	7172-00193	06228-00064	7172-00011	6198-00088	6198-00029
	vii.	R.B. Nos.	01505	01186	01162	01594	38792	29529	38898	38918
	viii.	R.B. Make	TIMKEN		TIMKEN		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-13-02-2964	RSK-15-6-847	DN-13-02-3269	RSK-15-6-1172	DN-12-12-2242	RSK-15-6-923	DN-13-3-3273	RSK-15-6-847	
ii.	Ht. at test load	511	468	510	467	511	468	509	467	
iii.	Align .deviation	18	37	20	40	15	36	18	37	
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-14-5		RSK-14-5		RSK	
	iii.	Primary Damper			0304,0313,0326,0235		0327,0269,0212,0247		KNORR	
	iv.	Secondary damper			0035,0107		0118,0105		KNORR	
	v.	Lateral Damper			0045		00065		KNORR	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			H15105/600,H15090/600, H15107/600,H15032/600		H15091/600,H15102/600, H15094/600,H15103/600		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							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			

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5009	DISPATCH DATE				16.01.2016
2.	Railway	SCR	Type	LWSCZ	Coach No.	15614	
3.	Booked to	SSE/C&W/SC					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
	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	NA		
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		
	iii.	CDTS			RAIL TECH		
	iv.	SEAT & BERTH			SUKATA		
	v.	BODY SIDE DOORS			JBM,SUKATA		
	vi.	SALOON COMPTT DOORS			NA		
	vii.	VESTIBULE SLIDING DOOR			KALSI		
	viii.	WATER TANKS			RAIL FAB		
	ix	UIC VESTIBULE			SUNCREAST		
	x	LUGGAGE RACK			RAIL TECH		
	XI	FLOOR BOARD			TAYAL		
	XII	PVC			PREMIER FILM		
	XIII	LP SHEET			PUNJAB LAMINATE		
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5009		SCR		LWSCZ		15614/C		4-12-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156924						156925			
	ii.	Frame No.	FIAT-4498						FIAT-4405			
	iii.	Bolster No.	5192-P						5227-P			
	iv.	Axle No.	125840/477		127853/987		128628/989		126954/476			
	v.	Wheel Dia.	915.00	915.00	917.00	917.00	915.00	915.00	915.00	915.00		
	vi.	Wheel Disc No.	7122-00164	7172-00115	7172-00133	7172-00076	6225-00106	06192-00214	6211-00085	7172-00090		
	vii.	R.B. Nos.	01767	01779	01789	01784	01766	23149	21240	22825		
	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.	RSK-15-3-011	RSK-15-3-444	RSK-15-3-62	RSK-15-3-435	RSK-15-3-63	RSK-15-3-330	RSK-15-3-35	RSK-15-3-257			
ii.	Ht. at test load	510	468	512	467	510	467	509	467			
iii.	Align .deviation	17	32	17	35	12	25	16	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-14-5			RSK-14-5			RSK	
	iii.	Primary Damper			0319,0257,0234,0378			0202,0200,0323,0322			KNORR	
	iv.	Secondary damper			0066,0114			0033,0027			KNORR	
	v.	Lateral Damper			0099			0057			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1830/691,1891/691,1827/691,1890/691			1673/691,1937/691,1671/691,1936/691			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									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				

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5012	DISPATCH DATE				14.01.2016
2.	Railway	SCR	Type	LWSCZ	Coach No.	15617	
3.	Booked to	SSE/C&W/SC					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
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	NA		
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	85/87	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT					FAVELLY	
iii.	CDTS					RAIL TECH	
iv.	SEAT & BERTH					SATLUJ	
v.	BODY SIDE DOORS					SUKATA	
vi.	SALOON COMPTT DOORS					NA	
vii.	VESTIBULE SLIDING DOOR					KALSI	
viii.	WATER TANKS					RAIL FAB,RUBICON	
ix	UIC VESTIBULE					ESCORT	
x	LUGGAGE RACK					RAIL TECH	
XI	FLOOR BOARD					TAYAL	
XII	PVC					RESPONSIVE	
XIII	LP SHEET					PUNJAB LAMINATE	
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5012		SCR		LWSCZ		15617/C		31-10-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156819						156820			
	ii.	Frame No.	FIAT-4341						FIAT-4332			
	iii.	Bolster No.	5216-P						5199-P			
	iv.	Axle No.	126747/468		129390/981		128791/990		129136/992			
	v.	Wheel Dia.	917.00	917.00	916.50	916.50	917.00	917.00	917.50	918.00		
	vi.	Wheel Disc No.	06222-00094	6202-00174	6222-00107	6202-00192	7166-00167	6211-00216	7166-00096	7150-00115		
	vii.	R.B. Nos.	05305	05324	05317	06090	06075	06112	05786	38993		
	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.	CMAFJ-14-4-34	G-12-8-3570	CMAFJ-14-4-45	G-12-8-3195	CMAFJ-14-4-43	G-12-8-3400	CMAFJ-14-4-10	G-12-8-3427			
ii.	Ht. at test load	512	467	512	468	507	466	509	467			
iii.	Align .deviation	8	22	10	22	20	25	20	26			
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-12-5			G-12-5			GF	
	iii.	Primary Damper			25629,25701,25636,25541			25643,26151,26009,25681			KONI	
	iv.	Secondary damper			1311,1344			1650,429			GEREP	
	v.	Lateral Damper			222			464			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			K15002/600,K15026/600, K15024/600,K15029/600			H15131/600,H15133/600, H15137/600,H15135/600			FTI	
	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									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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