



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5051	DISPATCH DATE				07.11.2015
2.	Railway	ECR	Type	LWSCN1	Coach No.	15223	
3.	Booked to		SSE/C&W/SPJ				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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	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 <sup>2</sup>		6 –10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00	
			All Brake are applied		OK	OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK	
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	85/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	I	BRAKE EQUIPMENT			KBI		
	ii	SEAT & BERTH			SAVITRI		
	iii	BODY SIDE DOORS			JBM, SUKATA		
	iv	WATER TANKS			E C BLADES, SHIVALIK		
	v	FLOOR BOARD			TAYAL		
	vi	PVC FLOORING			RESPONSIVE		
	vii	UIC VESTIBULE			ESCORT		
	viii	VESTIBULE SLIDING DOOR			KALSI		
	IX	CDTS			--		
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			5051		ECR		LSCN		15223		24-10-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	156793					156794				
	ii.	<b>Frame No.</b>	FIAT-4351					FIAT-4345				
	iii.	<b>Bolster No.</b>	5193-P					5804-GT				
	iv.	<b>Axle No.</b>	105904/477		129067/986			126739/468		126996/476		
	v.	<b>Wheel Dia.</b>	915.00	915.00	915.00	915.00	915.00	915.00	915.00	915.00	915.00	915.00
	vi.	<b>Wheel Disc No.</b>	6228-00163	7166-00120	7166-00021	6228-00123	7166-00075	6211-00055	6207-00114	06228-00019		
	vii.	<b>R.B. Nos.</b>	30824	30214	34328	34413	30828	16686	22218	22249		
	viii.	<b>R.B. Make</b>	SKF		SKF			SKF		SKF		
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	<b>Make &amp; nos.</b>	G-14-12-114	G-14-12-186	G-14-12-103	G-14-12-137	G-14-12-120	G-14-12-179	G-14-12-062	G-14-12-073			
ii.	<b>Ht. at test load</b>	513	470	514	471	513	469	514	472			
iii.	<b>Align .deviation</b>	3	7	4	8	4	7	5	12			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			G-14-11			G-14-11			GF	
	ii.	Primary inner Spring			G-14-12			G-14-12			GF	
	iii.	Primary Damper			25913,25838,26064,25905			25873,26088,25874,25956			KONI	
	iv.	Secondary damper			1061,1358			1110,1112			GEREP, KONI	
	v.	Lateral Damper			258			33			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1808/691,1849/691, 1806/691,1848/691			1805/691,1851/691, 1804/691,1856/691			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,GMT	
	xiv.	Traction centre elastic									MGN,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.	<b>Modification / Trial (if any):</b>			NIL							
	ii.	<b>Deviations (if any):</b>			NIL							

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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5055	DISPATCH DATE				16.11.2015
2.	Railway	ECR	Type	LWSCN1	Coach No.	15226	
3.	Booked to	SSE/C&W/SPJ					
4.	Tare Weight of Coach	41.239 T					
5.	Carrying Capacity	Seating	80	Sleeping	80	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	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 <sup>2</sup>		6 –10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00	
			All Brake are applied		OK	OK	
7.2	Insensitivity		Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK	
7.3	Sensitivity		Exhaust BP @ 0.1 kg/cm <sup>2</sup> /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					FAIVELEY	
li	SEAT & BERTH					SAVITRI	
lii	BODY SIDE DOORS					JBM, SUKATA	
lv	WATER TANKS					E C BLADES, SHIVALIK, KUTEER	
v	FLOOR BOARD					TAYAL	
vi	PVC FLOORING					RESPONSIVE	
vii	UIC VESTIBULE					ESCORT	
viii	VESTIBULE SLIDING DOOR					HANSPAL	
IX						--	
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5055	EC	LSCN	15226/C	28-10-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	156805				156806			
	ii.	Frame No.	FIAT-4339				FIAT-4309			
	iii.	Bolster No.	5017-VT				5080-GT			
	iv.	Axle No.	125739/473	126344/474	127858/987	128268/991				
	v.	Wheel Dia.	915.50	915.50	915.00	915.00	915.50	915.00	916.00	916.00
	vi.	Wheel Disc No.	6232-00132	6202-00053	6192-00157	6192-00201	6228-00151	6222-00040	6192-00164	6211-00121
	vii.	R.B. Nos.	35268	39090	05769	05328	05766	06709	05779	05810
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	G-14-12-086	G-14-12-014	G-14-12-100	G-14-12-004	G-14-12-007	G-14-12-111	G-14-12-017	G-14-12-188	
ii.	Ht. at test load	513	470	513	472	512	470	514	472	
iii.	Align .deviation	2	9	3	13	3	10	5	13	
11.3	<b>Items traceability:</b>									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	G-14-11		G-14-11		GF			
	ii.	Primary inner Spring	G-14-12		G-14-12		GF			
	iii.	Primary Damper	26233,25916,25957,26067		25502,26032,25927,25926		KONI			
	iv.	Secondary damper	1132,1330		1361,1332		GEREP			
	v.	Lateral Damper	234		232		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	H15140/600,H15129/600, H15136/600,H15130/600		H15129/600,H15136/600, H15133/600,H15132/600		FTI			
	viii.	Brake Disc					KBI			
	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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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5030	DISPATCH DATE				13.11.2015
2.	Railway	ECR	Type	LWSCN1	Coach No.	15225	
3.	Booked to		SSE/C&W/SPJ				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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	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 <sup>2</sup>		6 –10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00	
			All Brake are applied		OK	OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK	
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	85/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	I	BRAKE EQUIPMENT			KBI		
	ii	SEAT & BERTH			SAVITRI		
	iii	BODY SIDE DOORS			JBM, SUKATA		
	iv	WATER TANKS			E C BLADES, SHIVALIK, D.I.L.		
	v	FLOOR BOARD			TAYAL		
	vi	PVC FLOORING			RESPONSIVE		
	vii	UIC VESTIBULE			ESCORT		
	viii	VESTIBULE SLIDING DOOR			KALSI		
	IX	CDTS			--		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			5030		EC		LSCN		15225/C		30-10-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156759						156760			
	ii.	<b>Frame No.</b>	FIAT-2557						FIAT-4306			
	iii.	<b>Bolster No.</b>	5125-P						5168-VT			
	iv.	<b>Axle No.</b>	129257/982		126657/480		114689/376		129347/982			
	v.	<b>Wheel Dia.</b>	915.00	915.50	915.00	915.00	915.00	915.00	915.00	915.00	915.00	915.00
	vi.	<b>Wheel Disc No.</b>	7150-00022	6228-00067	6192-00159	6162-00153	6192-00206	6228-00112	6207-00199	6207-00168		
	vii.	<b>R.B. Nos.</b>	38785	38804	03651	05687	03663	06349	05727	03781		
	viii.	<b>R.B. Make</b>	SKF		SKF		SKF		SKF			
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
	<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>			
			Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner		
i.	<b>Make &amp; nos.</b>	G-14-12-126	G-14-12-039	G-14-12-091	G-14-12-189	G-14-12-085	G-14-12-046	G-14-12-001	G-14-12-031			
ii.	<b>Ht. at test load</b>	515	471	514	471	514	469	512	471			
iii.	<b>Align .deviation</b>	1	9	2	10	3	11	5	11			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			G-14-11			G-14-11			GF	
	ii.	Primary inner Spring			G-14-12			G-14-12			GF	
	iii.	Primary Damper			26049,26004,25848,26082			25895,26025,25885,26070			KONI	
	iv.	Secondary damper			1343,1108			1084,1194			GEREP	
	v.	Lateral Damper			341			333			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1153/691,1192/691,1150/691,1194/691			1293/691,1372//691,1330/691,1370/691			KBI	
	viii.	Brake Disc									KBI	
	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									SARITA	
11.4	i.	<b>Modification / Trial (if any):</b>						NIL				
	ii.	<b>Deviations (if any):</b>						NIL				

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**ROLLING STOCK CERTIFICATE**

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5023	DISPATCH DATE				<b>10.09.2015</b>
2.	Railway	<b>ECR</b>	Type	<b>LWSCN1</b>	Coach No.	<b>15208</b>	
3.	Booked to			<b>SSE/C&amp;W/SPJ</b>			
4.	Tare Weight of Coach			<b>41.239 T</b>			
5.	Carrying Capacity	Seating	80	<b>Sleeping</b>	80	Luggage	<b>NIL</b>
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	1103		
	v)	Buffer/CBC (Make )	<b>FAIVELEY</b>	<b>Fiba Device</b>	<b>NA</b>		
7.	Air Brake Testing:		Description		Specified	Observed	
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>		6 –10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00	
			All Brake are applied		OK	OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK	
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	<b>PU PAINT</b>	<b>GS</b>	<b>89/89</b>		
	8.2	APPLICATION OF PCN-123	<b>SATISFACTORY</b>				
	8.3	INSUALTION	<b>SATISFACTORY</b>				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			<b>KBI</b>		
	li	SEAT & BERTH			<b>SAVITRI</b>		
	lii	BODY SIDE DOORS			<b>SUKATA</b>		
	lv	WATER TANKS			<b>KUTEER, MANOJ &amp; SHIVALIK</b>		
	v	FLOOR BOARD			<b>TAYAL</b>		
	vi	PVC FLOORING			<b>RESPONSIVE</b>		
	vii	UIC VESTIBULE			<b>SUNCREAST</b>		
	viii	VESTIBULE SLIDING DOOR			<b>KALSI</b>		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5023	ECR	LSCN	15208/C	30-09-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	156449				156451			
	ii.	Frame No.	FIAT-4117				FIAT-3882			
	iii.	Bolster No.	4817-VT				4831-P			
	iv.	Axle No.	128436/983		126951/476		126356/474		126831/468	
	v.	Wheel Dia.	915.50	915.00	915.00	915.00	915.00	915.00	915.00	915.00
	vi.	Wheel Disc No.	6219-00161	06197-00070	6197-00064	6229-00146	6219-00042	6219-00109	6232-00067	6198-00041
	vii.	R.B. Nos.	02726	34873	29643	03309	29875	02802	22948	22974
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<b>Secondary suspension load deflection Values:</b>									
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	DN-14-03-649	G-13-12-291	DN-14-02-493	G-13-12-174	DN-14-01-050	DN-14-11-118	DN-14-03-580	DN-14-02-396	
ii.	Ht. at test load	515	470	515	470	514	471	516	467	
iii.	Align .deviation	10	19	7	15	5	9	8	9	
11.3	<b>Items traceability:</b>									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			G-14-11		G-14-12		GF	
	ii.	Primary inner Spring			G-14-12		G-14-12		GF	
	iii.	Primary Damper			26079,25510,26178,26197		25486,26212,25635,25500		KONI	
	iv.	Secondary damper			5086,5593		1228,1345		KONI.GERE P	
	v.	Lateral Damper			445		418		GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			1629/691,1694/691 1627/691,1695/691		1625/691,1680/691 1622/691,1679/691		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							SGA	
	xiv.	Traction centre elastic							GMT,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				

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