



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5022	DISPATCH DATE				10.09.2015
2.	Railway	ECR	Type	LWSCN1	Coach No.	15209	
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	1102	1104		
	v)	Buffer/CBC (Make )	FAIVELEY	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	GS	89/88		
	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				
	iv	WATER TANKS	KUTEER & SHIVALIK				
	v	FLOOR BOARD	TAYAL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	FRIKMART				
	viii	VESTIBULE SLIDING DOOR	KALSI				
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>	
			5022		ECR		LSCN		15209		27-08-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156450						156460			
	ii.	<b>Frame No.</b>	FIAT-3957						FIAT-4029			
	iii.	<b>Bolster No.</b>	4828-VT						4814-VT			
	iv.	<b>Axle No.</b>	128043/988		125768/473		128366/991		126362/474			
	v.	<b>Wheel Dia.</b>	917.00	917.00	916.50	916.00	917.00	917.00	916.50	916.50		
	vi.	<b>Wheel Disc No.</b>	6232-00168	6232-00172	6232-00112	6213-00136	6194-00035	6212-00026	6194-00102	6198-00012		
	vii.	<b>R.B. Nos.</b>	02262	02268	02261	21931	22020	22128	02336	02062		
	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>	DN-14-02-406	G-14-12-098	DN-14-02-270	G-14-12-151	DN-14-11-1181	DN-14-10-714	DN-14-11-1143	DN-14-10-774			
ii.	<b>Ht. at test load</b>	511	471	511	472	511	470	510	471			
iii.	<b>Align .deviation</b>	14	10	13	8	13	15	12	17			
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-14-3			G-14-3			GF	
	ii.	Primary inner Spring			G-14-3			G-14-3			GF	
	iii.	Primary Damper			399,369,349,373			1253,1117,364,366			GEREP	
	iv.	Secondary damper			1308,1353			1288,1271			GEREP	
	v.	Lateral Damper			530			417			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1057/691,1087/691 1054/691,1086/691			1064/691,1080/691 1065/691,1073/691			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,GMT	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									WINLANE	
	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				

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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5029	DISPATCH DATE				10.09.2015
2.	Railway	ECR	Type	LWSCN1	Coach No.	15210	
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	1102	1102		
	v)	Buffer/CBC (Make )	FAIVELEY	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	GS	85/85		
	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		SUKATA			
	iv	WATER TANKS		KUTEER, MANOJ & SHIVALIK			
	v	FLOOR BOARD		TAYAL			
	vi	PVC FLOORING		RESPONSIVE			
	vii	UIC VESTIBULE		SUNCREAST			
	viii	VESTIBULE SLIDING DOOR		KALSI			
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>	
			5029		ECR		LGS		15210		30-07-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156437						156438			
	ii.	<b>Frame No.</b>	FIAT-3776						FIAT-4032			
	iii.	<b>Bolster No.</b>	4808/VT						4812-VT			
	iv.	<b>Axle No.</b>	C-4546		125689/479		126619/480		126796/468			
	v.	<b>Wheel Dia.</b>	915.00	915.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	<b>Wheel Disc No.</b>	197-63302	107-63307	064-63305	177-63301	324-63309	019-63301	316-63302	112-63301		
	vii.	<b>R.B. Nos.</b>	04651	01354	03827	04167	04176	04378	03818	03832		
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	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>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	DN-13-02-153	DN-13-02-402	DN-13-02-726	DN-13-02-284	DN-13-02-452	DN-13-02-299	DN-13-02-709	DN-13-02-375			
ii.	<b>Ht. at test load</b>	511	471	513	471	510	468	510	470			
iii.	<b>Align .deviation</b>	10	8	14	14	10	10	10	9			
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-14-3		G-14-3		GF			
	ii.	Primary inner Spring			G-14-3		G-14-3		GF			
	iii.	Primary Damper			1235,1262,1224,785		1222,1251,703,729		GEREP			
	iv.	Secondary damper			1222,1236		916,918		GEREP			
	v.	Lateral Damper			3153		L-3141		KONI			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							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							GMT			
	xv.	Secondary rubber pad							TESPAK			
	xvi.	Rubber spring							WINILANE			
	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.	5024	DISPATCH DATE				18.09.2015
2.	Railway	ECR	Type	LWSCN1	Coach No.	15211	
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 )		FAIVELEY	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	ADVANCE	89/89		
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			
iv	WATER TANKS			KUTEER & SHIVALIK			
v	FLOOR BOARD			TAYAL			
vi	PVC FLOORING			RESPONSIVE			
vii	UIC VESTIBULE			SUNCREAST			
viii	VESTIBULE SLIDING DOOR			KALSI			
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>	
			5024		EC		LSCN		15211/C		14-09-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156672						156673			
	ii.	<b>Frame No.</b>	FIAT-4269						SCI-FM-181-			
	iii.	<b>Bolster No.</b>	4985-VT						4968-VT			
	iv.	<b>Axle No.</b>	126060/475			A-3216			126778/468		128307/991	
	v.	<b>Wheel Dia.</b>	916.00	916.50	916.00	916.00	916.00	916.00	917.00	917.00	917.00	917.00
	vi.	<b>Wheel Disc No.</b>	6198-00173	6232-00163	6212-00162	6232-00149	6196-0008	6198-00054	6232-00194	6149-00158	6149-00158	6149-00158
	vii.	<b>R.B. Nos.</b>	23344	30000	02978	30415	22348	29884	01075	23279	23279	23279
	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>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	DN-14-1-546	G-14-12-108	DN-14-1-498	G-14-12-114	DN-14-1-591	G-14-12-100	DN-14-1-390	G-14-12-030			
ii.	<b>Ht. at test load</b>	515	469	515	472	513	470	514	471			
iii.	<b>Align .deviation</b>	8	9	9	9	7	10	9	10			
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-14-3			G-14-3			GF	
	ii.	Primary inner Spring			G-14-3			G-14-3			GF	
	iii.	Primary Damper			26828,26761,26747,26657			26861,26702,26818,26302			KONI	
	iv.	Secondary damper			1354,1341			1287,1310			GEREP	
	v.	Lateral Damper			156			145			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1624-691,1650/691,1605/691,1649/691			1134/691,1223/691,1136/691,1224/691			KBI	
	viii.	Brake Disc									KBI	
	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									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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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5040	DISPATCH DATE				25.09.2015
2.	Railway	ECR	Type	LWSCN1	Coach No.	15212	
3.	Booked to	SSE/C&W/DHN					
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	1100	1100		
	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	GS	88/88		
	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, KUTEER, MANOJ			
	v	FLOOR BOARD		TAYAL			
	vi	PVC FLOORING		RESPONSIVE			
	vii	UIC VESTIBULE		SUNCREAST			
	viii	VESTIBULE SLIDING DOOR		KALSI			
		CDTS		RAIL TECH			
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>			
			5040	ECR	LSCN	15212	15-09-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>				<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156674				156675			
	ii.	<b>Frame No.</b>	FIAT-4045				FIAT-4157			
	iii.	<b>Bolster No.</b>	5107-P				5061-GT			
	iv.	<b>Axle No.</b>	126895/470		126556/481		126476/481		A-3152	
	v.	<b>Wheel Dia.</b>	917.00	917.00	916.00	916.50	916.00	916.50	916.00	916.00
	vi.	<b>Wheel Disc No.</b>	6229-00059	6212-00111	6212-00091	6191-00103	6213-00029	6212-00073	6232-00020	6197-00118
	vii.	<b>R.B. Nos.</b>	22028	23316	23327	23275	01089	03139	01104	23299
	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>		
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	
i.	<b>Make &amp; nos.</b>	DN-14-5-828	G-14-12-052	DN-14-5-802	G-14-12-195	DN-14-5-798	G-14-12-162	DN-14-5-341	G-14-12-471	
ii.	<b>Ht. at test load</b>	512	472	514	472	512	471	514	471	
iii.	<b>Align .deviation</b>	6	11	9	14	10	7	11	10	
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-14-3		G-14-3		GF	
	ii.	Primary inner Spring			G-14-3		G-14-3		GF	
	iii.	Primary Damper			26655,26363,26928,26824		1201,1720,1401,1530		KONI, GEREPE	
	iv.	Secondary damper			1376,1325		1347,1266		GEREP	
	v.	Lateral Damper			179		167		GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			1637/691,1719/691, 1636/691,1722/691		1628/691,1729/691, 1638/691,1721/691		KBI	
	viii.	Brake Disc							KBI	
	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							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.	<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.	5046	DISPATCH DATE				03.10.2015
2.	Railway	ECR	Type	LWSCN1	Coach No.	15216	
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	ADVANCE	89/91		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i	BRAKE EQUIPMENT		FAIVELEY			
	ii	SEAT & BERTH		SAVITRI			
	iii	BODY SIDE DOORS		JBM			
	iv	WATER TANKS		E C BLADES, KUTEER, SHIVALIK			
	v	FLOOR BOARD		TAYAL			
	vi	PVC FLOORING		RESPONSIVE			
	vii	UIC VESTIBULE		SUNCREAST			
	viii	VESTIBULE SLIDING DOOR		KALSI			
	IX	CDTS		RAIL TECH			
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>	
			5046		ECR		LSCN		15216/C		16-09-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156539						156541			
	ii.	<b>Frame No.</b>	FIAT-4094						FIAT-4080			
	iii.	<b>Bolster No.</b>	4940-VT						4921-VT			
	iv.	<b>Axle No.</b>	128593/989		126335/474		128796/990		127032/476			
	v.	<b>Wheel Dia.</b>	915.00	915.00	915.00	915.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	<b>Wheel Disc No.</b>	06149-00130	06149-00131	6213-00073	6229-00091	6232-00077	6212-00183	6232-00165	6232-00180	6232-00180	6232-00180
	vii.	<b>R.B. Nos.</b>	03320	03323	30095	03329	02056	30018	21842	21855	21855	21855
	viii.	<b>R.B. Make</b>	SKF		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	Outer	Inner
i.	<b>Make &amp; nos.</b>	DN-14-11-1023	DN-14-10-739	DN-14-11-1075	DN-14-09-704	DN-14-11-1118	DN-14-11-726	DN-14-11-1121	DN-14-11-929	DN-14-11-929	DN-14-11-929	DN-14-11-929
ii.	<b>Ht. at test load</b>	514	470	516	471	514	469	513	470	470	470	470
iii.	<b>Align .deviation</b>	11	8	12	12	12	11	11	10	10	10	10
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-14-3			G-14-3			GF	
	ii.	Primary inner Spring			G-14-3			G-14-3			GF	
	iii.	Primary Damper			25326,25457,25360,25120			25185,25458,25191,25466			KONI	
	iv.	Secondary damper			1276,1295			1281,1073			GEREP	
	v.	Lateral Damper			401			415			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			15016/600,15022/600,15020/600,15025/600			F15078/600,F15073/600,F15038/600,F15090/600			FTI	
	viii.	Brake Disc									KBI	
	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									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, 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.	5049	DISPATCH DATE				06.10.2015
2.	Railway	ECR	Type	LWSCN1	Coach No.	15218	
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	ADVANCE	86/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	I	BRAKE EQUIPMENT			FAIVELEY		
	ii	SEAT & BERTH			SAVITRI		
	iii	BODY SIDE DOORS			JBM		
	iv	WATER TANKS			E C BLADES, MANOJ, SHIVALIK		
	v	FLOOR BOARD			TAYAL		
	vi	PVC FLOORING			RESPONSIVE		
	vii	UIC VESTIBULE			SUNCREAST		
	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>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5049	EC	LSCN	15218/C	17-09-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	156682				156683			
	ii.	Frame No.	FIAT-4042				FIAT-4084			
	iii.	Bolster No.	5081-GT				5095-P			
	iv.	Axle No.	127763/987		114925/369		128116/984		126864/470	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	6191-00159	6191-00184	6197-00122	06232-00201	6232-00027	6212-00027	6212-00156	6232-00049
	vii.	R.B. Nos.	34014	02257	30230	21836	02207	02289	22067	02681
	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.	DN-14-01-199	G-14-12-158	DN-15-01-149	G-14-12-140	DN-14-01-263	G-14-12-163	DN-14-01-264	G-14-12-135	
ii.	Ht. at test load	516	472	515	472	516	472	516	472	
iii.	Align .deviation	12	8	14	10	15	7	16	8	
11.3	<b>Items traceability:</b>									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	G-14-3		G-14-3		GF			
	ii.	Primary inner Spring	G-13-11		G-13-11		GF			
	iii.	Primary Damper	25379,25186,25442,25319		25340,25175,25143,25240		KONI			
	iv.	Secondary damper	1363,1261		1364,1311		GEREP			
	v.	Lateral Damper	307		362		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	G15160/600,G15143/600, G15161/600,F15145/600		F15046/600,F15053/600, F15033/600,F15060/600		FTI			
	viii.	Brake Disc					KBI			
	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					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					

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