



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4080	DISPATCH DATE				<b>01.08.2015</b>
2.	Railway	<b>NR</b>	Type	<b>LS3</b>	Coach No.	<b>153517</b>	
3.	Booked to	<b>SSE/C&amp;W/NDLS</b>					
4.	Tare Weight of Coach	<b>40.665 T</b>					
5.	Carrying Capacity	Seating	100	<b>Sleeping</b>	<b>NIL</b>	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	1105	
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>APC</b>	<b>86/86</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>FAIVELEY</b>
ii	SEAT & BERTH						<b>OVPL</b>
lii	BODY SIDE DOORS						<b>JBM, SUKATA</b>
lv	WATER TANKS						<b>RUBICONE, RAIL FAB</b>
v	FLOOR BOARD						<b>TAYAL</b>
VI	PVC						<b>RESPONSIVE</b>
Vii	LP SHEET						<b>NA</b>
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>	
			4080		NR		LGS		153517		25-06-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156374						156377			
	ii.	<b>Frame No.</b>	SCI-FM-157						SCI-FM-160			
	iii.	<b>Bolster No.</b>	4730-VT						4744-ECBT			
	iv.	<b>Axle No.</b>	C-4811			C-4359			C-4577		C-4691	
	v.	<b>Wheel Dia.</b>	915.00	915.00	915.00	915.00	915.00	915.00	915.00	915.00	915.00	
	vi.	<b>Wheel Disc No.</b>	086-10508	194-63305	136-11611	150-63305	274-10579	237-10568	273-63309	083-63309		
	vii.	<b>R.B. Nos.</b>	04797	04319	04033	03740	04278	04156	04845	04258		
	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>	G-14-11-122	G-14-11-194	G-14-11-128	G-14-11-109	G-14-11-032	G-14-11-044	G-14-11-029	G-14-11-152			
ii.	<b>Ht. at test load</b>	516	471	516	472	515	470	515	471			
iii.	<b>Align .deviation</b>	2	8	3	12	2	10	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-14-3			G-14-3			GF	
	ii.	Primary inner Spring			G-14-12			G-14-12			GF	
	iii.	Primary Damper			24675,24506,23890,24826			24864,24913,24668,24528			KONI	
	iv.	Secondary damper			869,223			870,811			GEREP	
	v.	Lateral Damper			3012			2978			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			D15008/600,C15002/600, D15009/600,C15015/600			A15097/600,A15091/600, A15092/600,A15097/600			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									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	
11.4	i.	<b>Modification / Trial (if any):</b>			NIL							
	ii.	<b>Deviations (if any):</b>			NIL							

LS3-4080

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5005	DISPATCH DATE				<b>07.08.2015</b>
2.	Railway	<b>NR</b>	Type	<b>LS3</b>	Coach No.	<b>153520</b>	
3.	Booked to	<b>SSE/C&amp;W/NDLS</b>					
4.	Tare Weight of Coach	<b>40.665 T</b>					
5.	Carrying Capacity	Seating	100	<b>Sleeping</b>	<b>NIL</b>	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		1102	1105	
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>86/87</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>OVPL</b>		
lii	BODY SIDE DOORS				<b>JBM, SUKATA</b>		
lv	WATER TANKS				<b>RAIL FAB</b>		
v	FLOOR BOARD				<b>TAYAL</b>		
VI	PVC				<b>RESPONSIVE</b>		
Vii	LP SHEET				<b>NA</b>		
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>	
			5005		NR		LGS		153520		28-07-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>				<b>NPP Side</b>					
	i.	<b>Bogie No.</b>	156443				156444					
	ii.	<b>Frame No.</b>	FIAT-4017				FIAT-4018					
	iii.	<b>Bolster No.</b>	4810-VT				4834-P					
	iv.	<b>Axle No.</b>	C-4796		A-3227		A-3037		A-2952			
	v.	<b>Wheel Dia.</b>	915.00	915.00	914.00	914.00	912.00	912.00	912.00	912.00	912.00	912.00
	vi.	<b>Wheel Disc No.</b>	367-63305	209-10579	194-11600	056-10579	256-10583	060-10559	281-63301	320-10582		
	vii.	<b>R.B. Nos.</b>	04736	04282	03629	03946	01532	01267	04027	04145		
	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>			
			Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner		
i.	<b>Make &amp; nos.</b>	DN-14-3-748	DN-14-3-459	DN-14-3-644	DN-14-3-465	DN-14-3-669	DN-14-3-483	DN-14-3-627	DN-14-3-502			
ii.	<b>Ht. at test load</b>	515	469	516	468	515	472	513	471			
iii.	<b>Align .deviation</b>	10	12	11	16	12	11	11	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-14-3		G-14-3		GF			
	ii.	Primary inner Spring			G-14-3		G-14-3		GF			
	iii.	Primary Damper			1207,1206,1257,751		1109,1123,1110,1247		GEREP			
	iv.	Secondary damper			1131,1159		1018,1145		GEREP			
	v.	Lateral Damper			3241		3232		KONI			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			1031/691,1109/691,1030/691,1111/691		1032/691,1112/691,1033/691,1110/691		KBI			
	viii.	Brake Disc							FTI,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,SGA			
	xiv.	Traction centre elastic							GMT,SGA			
	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.	<b>Modification / Trial (if any):</b>			NIL							
	ii.	<b>Deviations (if any):</b>			LESS WHEEL DIA							

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5003	DISPATCH DATE				10.08.2015
2.	Railway	NR	Type	LS3	Coach No.	153518	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	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	1100	1099		
	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	91/89		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	I	BRAKE EQUIPMENT	KBI				
	li	SEAT & BERTH	MANOJ				
	lii	BODY SIDE DOORS	SUKATA				
	lv	WATER TANKS	RAIL FAB				
	v	FLOOR BOARD	TAYAL				
	VI	PVC	RESPONSIVE				
	Vii	LP SHEET	NA				
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>	
			5003		NR		LGS		153518/C		28-07-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156459						156460			
	ii.	<b>Frame No.</b>	FIAT-3952						FIAT-4061			
	iii.	<b>Bolster No.</b>	4826-P						4837-VT			
	iv.	<b>Axle No.</b>	C-0058		128645/989		127846/987		127787/987			
	v.	<b>Wheel Dia.</b>	915.50	915.50	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	<b>Wheel Disc No.</b>	255-62314	067-10559	268-63309	272-63302	175-11603	083-63307	096-63309	023-63305		
	vii.	<b>R.B. Nos.</b>	03712	04268	03650	04477	04060	04571	04414	03860		
	viii.	<b>R.B. Make</b>	TIM		TIM		TIM		TIM			
	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-14-11-1187	DN-14-11-787	DN-14-11-1084	DN-14-11-759	DN-14-11-1179	DN-14-11-701	DN-14-11-1041	DN-14-11-754			
ii.	<b>Ht. at test load</b>	513	472	511	470	513	471	513	470			
iii.	<b>Align .deviation</b>	9	8	11	10	9	11	13	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-14-03			G-14-03			GF	
	ii.	Primary inner Spring			G-14-03			G-14-03			GF	
	iii.	Primary Damper			765,1210,793,1249			422,1242,1209,1235			GEREP	
	iv.	Secondary damper			919,1235			337,1370			GEREP	
	v.	Lateral Damper			L-3165			L-3166			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1023/691,1093/691, 1046/691,073/691			1024/691,1090/691 1049/691,070/691			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									WINLANE	
	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					