



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5043	DISPATCH DATE				30.12.2015
2.	Railway	WR	Type	LWLRRM	Coach No.		15852
3.	Booked to			SSE/C&W/BCT/M			
4.	Tare Weight of Coach			53.4 T			
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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	87	
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT				FAIVELEY	
	iii.	CDTS				AIR FLOW	
	iv.	SEATS/S&B				AMIR CHAND	
	v.	BODY SIDE DOOR				JBM	
	vi.	VESTIBULE SLIDING DOOR				KALSI	
	vii.	CREW-GEN & GUARD ROOM DOOR				CP/JBM	
	viii.	WATER TANKS				KUTEER, MANOJ	
	ix	FUEL TANK				GAURAV	
	x	UIC VESTIBULE				ESCORTS	
	XI	FLOOR BOARD				NARBADA	
	XII	PVC				RESPONSIVE	
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>	
			5043		WR		LWLRRM		15852/C		29-10-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>LPC-1 PP Side(Guard )</b>					<b>LPC-II NPP Side (Non guard )</b>				
	i.	<b>Bogie No.</b>	156695					156694				
	ii.	<b>Frame No.</b>	SCI/FM-229					FIAT-4305				
	iii.	<b>Bolster No.</b>	5089-GT					5090-P				
	iv.	<b>Axle No.</b>	126342/474		125901/417			125993/475		126114/471		
	v.	<b>Wheel Dia.</b>	915.00	915.00	915.00	915.00	915.00	915.00	915.50	915.50		
	vi.	<b>Wheel Disc No.</b>	7112-00209	6213-00114	6148-00088	6148-00114	6222-00211	6228-00035	7166-00104	7166-00051		
	vii.	<b>R.B. Nos.</b>	01240	30240	38890	34430	39104	29878	23295	23217		
	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-12-11-308	BPS-2015-464	DN-13-01-332	BPS-2015	CMFSK-15-5-18	CMAFJ-14-4-10	CMFSK-15-5-20	CMAFJ-14-4-14			
ii.	<b>Ht. at test load</b>	512	464	512	464	515	469	515	468			
iii.	<b>Align .deviation</b>	4	9	6	10	10	10	8	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			L&S-13-5			L&S-12-5			L&S	
	ii.	Primary inner Spring			G-15-3			G-15-3			GF	
	iii.	Primary Damper			26231,25896,25870,25899			25941,25929,25936,25935			KONI	
	iv.	Secondary damper			1359,1462			410,527			GEREP	
	v.	Lateral Damper			249			245			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			G15039/2000,G15008/2000 G15038/2000,G15001/2000			142002/2000,142031/2000 142028/2000,G15038/2000			FTI	
	viii.	Brake Disc									FTI,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									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									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.	4041	DISPATCH DATE				26.11.2015
2.	Railway	WR	Type	LWLRRM	Coach No.		15851
3.	Booked to			SSE/C&W/BCT/M			
4.	Tare Weight of Coach			53.4 T			
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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	89	
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT				FAIVELEY	
	iii.	CDTS				AIR FLOW	
	iv.	SEATS/S&B				GANDHI	
	v.	BODY SIDE DOOR				JBM	
	vi.	VESTIBULE SLIDING DOOR				KALSI	
	vii.	CREW-GEN & GUARD ROOM DOOR				CP/JBM	
	viii.	WATER TANKS				KUTEER, SHIVALIK	
	ix	FUEL TANK				SHIVALIK, GAURAV	
	x	UIC VESTIBULE				ESCORTS	
	XI	FLOOR BOARD				NARBADA	
	XII	PVC				RESPONSIVE	
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			
			4041	WR	LWLRRM	15851/C	17-11-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		LPC-1 PP Side(Guard )				LPC-II NPP Side (Non guard )			
	i.	Bogie No.	156876				156875			
	ii.	Frame No.	FIAT-4264				VS-14			
	iii.	Bolster No.	5172-VT				5245-P			
	iv.	Axle No.	126671/480	125933/477	126929/976	128803/990				
	v.	Wheel Dia.	917.00	917.00	916.50	916.00	916.00	916.50	917.00	917.00
	vi.	Wheel Disc No.	7150-00120	6207-00203	6207-00208	6211-00006	7166-00203	6207-00186	7150-00038	6207-00085
	vii.	R.B. Nos.	15049	16564	17214	29674	16664	29673	16592	29662
	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.	GBD-14-5-13	GBD-14-5-27	GBD-14-5-61	GBD-14-5-15	GBD-15-3-39	DN-12-1-233	GBD-15-3-54	DN-12-1-163	
ii.	Ht. at test load	508.50	464	508	465	514	465	514.50	465	
iii.	Align .deviation	8	21	7	21	8	10	7	9	
11.3	<b>Items traceability:</b>									
	Sno.	Item	PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring	GBD-156			GBD-15-6			GBD	
	ii.	Primary inner Spring	G-12-6			G-12-6			GF	
	iii.	Primary Damper	0086,0087,0186,0179			0178,0160,0108,0090			KNORR	
	iv.	Secondary damper	0063,0109			0166,0036			KNORR	
	v.	Lateral Damper	70			266			GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper	142014/2000,142047/2000 141714/2000,141758/2000			15007/2000,15001/2000 15012/2000,15003/2000			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,MGN	
	xiv.	Traction centre elastic							GMT,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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