



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5005	DISPATCH DATE				15.02.2016
2.	Railway	WR	Type	LWFCZAC	Coach No.	140010	
3.	Booked to	SSE/C&W/BCT/M					
4.	Tare Weight of Coach	43.6 T					
5.	Carrying Capacity	Seating	24	Sleeping	24	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	1102	
v)	Buffer/CBC (Make )		FAIVELEY		Fiba Device	NIL	
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	86/87	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
i.	BRAKE EQUIPMENT		FAIVELEY				
ii.	CDTS/ BIO TOILET		RAIL TECH				
iii.	SEATS/ BERTHS		SUTLEJ				
iv.	BODY SIDE DOOR		SUKATA				
v.	VESTIBULE SLIDING DOOR		HP				
vi.	SALOON DOOR		KALSI				
vii.	WATER TANKS		KUTEER, SHIVALIK				
viii.	UIC VESTIBULE		ESCORTS				
ix	FLOOR BOARD		NARBADA				
x	PVC FLOORING		RESPONSIVE				
10.							
i	Modification / Trail (if any):				NIL		
ii	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		WR		LWFCZAC		140010/C		26-12-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156969						157001			
	ii.	<b>Frame No.</b>	FIAT-4510						FIAT-4516			
	iii.	<b>Bolster No.</b>	5333-VT						4923-VT			
	iv.	<b>Axle No.</b>	128347/997		125682/479		128062/988		113442/372			
	v.	<b>Wheel Dia.</b>	916.00	916.50	916.00	916.00	915.00	915.00	916.00	916.00		
	vi.	<b>Wheel Disc No.</b>	7273-00040	07301-00056	7290-00196	7290-00076	7290-00088	07297-00194	7276-00101	7297-00122		
	vii.	<b>R.B. Nos.</b>	03040	03926	03715	06469	03163	03395	02908	03469		
	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-12-5-1487	DN-12-6-1485	DN-12-5-1486	DN-12-6-1423	DN-13-5-3880	DN-13-5-2184	DN-12-5-1596	DN-13-5-2080			
ii.	<b>Ht. at test load</b>	506	466	506	464	510	463	510	467			
iii.	<b>Align .deviation</b>	17	4	19	6	19	20	21	20			
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			RSK-13-2			RSK-13-2			RSK	
	ii.	Primary inner Spring			RSK-11-5			RSK-11-5			RSK	
	iii.	Primary Damper			1479,1339,1538,1595			1404,1600,1349,1592			GEREP	
	iv.	Secondary damper			1346,516			401,490			GEREP	
	v.	Lateral Damper			481			225			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			K15180/600,K15195/600 K15174/600,K15185/600			M15073/600,M15051/600 M15052/600,M15050/600			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									SGA	
	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.	<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.	5004	DISPATCH DATE				14.3.2016
2.	Railway	WR	Type	LWFCZAC	Coach No.	140020	
3.	Booked to	SSE/C&W/BCT					
4.	Tare Weight of Coach	39.00 T					
5.	Carrying Capacity	Seating	56	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		1105	1105		
v)	Buffer/CBC (Make )	FAVELLY		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	87/87	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
i.	BRAKE EQUIPMENT			FAVELLY			
iii.	BIOTANK			RAIL TECH			
iv.	SEAT & BERTH			SATLEJ,			
v.	FLOOR			TAYAL,			
vi.	PVC			RESPONSIVE			
vii.	LP PANNEL						
viii.	BODY SIDE DOORS			JBM			
ix	SALOON COMPTT DOORS			KALSI			
x	VESTIBULE SLIDING DOOR			KALSI			
	WATER TANKS			SHIVALIK & EC BLADE			
	UIC VESTIBULE			ESCORT			
	LUGGAGE RACK,			HANSPAL			
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>	
			5004		WR		LWFCZAC		140020		28-12-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156974						156975			
	ii.	<b>Frame No.</b>	FIAT-4392						BEC-026			
	iii.	<b>Bolster No.</b>	5345-P						5358-P			
	iv.	<b>Axle No.</b>	128253/991		128186/984		128376/991		128143/984			
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	<b>Wheel Disc No.</b>	6227-00073	7290-00173	06227-00071	7222-00067	7292-00068	7273-00010	6226-00079	6226-00114		
	vii.	<b>R.B. Nos.</b>	06414	03350	03067	03415	06205	03969	01986	03986		
	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-12-5-1587	DN-12-6-1458	DN-12-5-1547	DN-12-6-1444	DN-12-5-1555	DN-12-6-1373	DN-12-5-1581	DN-12-6-1432			
ii.	<b>Ht. at test load</b>	506	464	505	463	507	461	509	465			
iii.	<b>Align .deviation</b>	17	2	21	3	15	2	17	5			
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			RSK-13-2			RSK-13-2			RSK	
	ii.	Primary inner Spring			RSK-11-5			RSK-11-5			RSK	
	iii.	Primary Damper			530,904,914,1540			495,648,1262,477			GEREP	
	iv.	Secondary damper			508,475			405,420			GEREP	
	v.	Lateral Damper			41			05			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			L15032/600,L15024/600 L15031/600,L15014/600			L15044/600,L15105/600 L15119/600,L15106/600			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									SGA	
	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.	<b>Modification / Trial (if any):</b>						NIL				
	ii.	<b>Deviations (if any):</b>						NIL				

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