



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5018	DISPATCH DATE				31.07.2015
2.	Railway	SCR	Type	LWACCN	Coach No.	15141	
3.	Booked to	SSE/C&W/BZA					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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	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 ²		6 –10 sec	6 Sec	
			Max Pressure in BC		3.80 ± 0.15 Kg/cm ²	3.80	
			All Brake are applied		OK	OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min		No brake application	OK	
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	ADVANCE	86/89		
	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	ORIENTAL				
	iii.	SEATS/ BERTHS	AAR KAY FOAMS				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	SALOON DOOR	KALSI				
	vii.	WATER TANKS	KUTEER, SHIVALIK, E C BLADES				
	viii.	UIC VESTIBULE	KRP				
	ix	FLOOR BOARD	TAYAL				
	X	PVC	RESPONSIVE				
10.							
	10.1	Modification / Trail (if any):			FITTED WITH BIO DIGESTER OF M/s RAIL FAB		
	10.2	Deviations if any:			NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5018		SC		LACCN		15141/C		21-07-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156490						156491			
	ii.	Frame No.	FIAT-3962						FIAT-3900			
	iii.	Bolster No.	4875-VT						4889-VT			
	iv.	Axle No.	127836/987		128379/991		128910/990		127844/987			
	v.	Wheel Dia.	916.00	916.00	917.00	917.00	918.00	18.00	918.0	918.00		
	vi.	Wheel Disc No.	6147-00196	06148-00200	06148/00181	6147-00117	00148-06148	06148-00027	6147-00178	6147-00152		
	vii.	R.B. Nos.	26436	27161	26993	25641	26434	25618	26433	25889		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	Secondary suspension load deflection Values:											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	G-15-3-054	G-10-12-3847	G-15-3-109	G-10-12-3840	G-15-3-114	G-10-12-4002	G-15-3-128	G-10-12-3777			
ii.	Ht. at test load	515	467	514	466	513	466	512	465			
iii.	Align .deviation	21	17	18	17	16	12	14	11			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-14-5			RSK-14-5			RSK	
	ii.	Primary inner Spring			YR-10-11			YR-10-11			YR	
	iii.	Primary Damper			24703,24363,24768,24583			24390,24591,24774,24771			KONI	
	iv.	Secondary damper			5385,5154			5097,5370			KONI	
	v.	Lateral Damper			3130			3086			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			F15026/600,F15028/600 K15100/600,F15012/600			F15032/600,F15057/600 E15104/600,F15026/600			FTI	
	viii.	Brake Disc									FTII	
	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									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.	5007	DISPATCH DATE		10.08.2015
2.	Railway	SCR	Type	LWACCN	Coach No. 15148
3.	Booked to	SSE/C&W/BZA			
4.	Tare Weight of Coach	45.6 T			
5.	Carrying Capacity	Seating	72	Sleeping	72
				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	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 ²	6 -10 sec	6 Sec	
		Max Pressure in BC	3.80 ± 0.15 Kg/cm ²	3.80	
		All Brake are applied	OK	OK	
7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min	No brake application	OK	
7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.	Brake must apply	OK	
8.	PAINTING DEATAILS:	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE	
8.1	PAINT	PU PAINT	ADVANCE	86/87	
8.2	APPLICATION OF PCN-123	SATISFACTORY			
8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:			Make	
i.	BRAKE EQUIPMENT			KBI	
ii.	CDTS/ BIO TOILET			VIBHU	
iii.	SEATS/ BERTHS			SAAVITRI	
iv.	BODY SIDE DOOR			JBM	
v.	VESTIBULE SLIDING DOOR			KALSI	
vi.	SALOON DOOR			KALSI	
vii.	WATER TANKS			E C BLADES, SHIVALIK	
viii.	UIC VESTIBULE			FRINKMART	
ix	FLOOR BOARD			TAYAL	
X	PVC			RESPONSIVE	
10.	Modification / Trail (if any):				FITTED WITH BIO DIGESTER OF M/s RAIL FAB
10.1	Deviations if any:				NIL
10.2					



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5007		SC		LACCN		15148/C		04-08-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156570						156571			
	ii.	Frame No.	FIAT-4212						FIAT-4010			
	iii.	Bolster No.	4959-VT						4954-VT			
	iv.	Axle No.	128388/991		129095/992		126679/480		125935/477			
	v.	Wheel Dia.	918.00	918.00	918.00	918.00	918.00	918.00	918.00	918.00	918.00	918.00
	vi.	Wheel Disc No.	254-10568	003-50788	367-11603	311-50798	6146-00081	07745-000666	242-63302	129-51916		
	vii.	R.B. Nos.	01258	01374	01366	01085	29554	35039	02993	17091		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	Secondary suspension load deflection Values:											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	G-14-5-045	G-12-8-3111	G-14-5-043	G-12-8-5422	G-14-5-009	G-12-8-2778	G-14-5-149	G-12-8-2956			
ii.	Ht. at test load	514	467	514	467	514	465	512	465			
iii.	Align .deviation	14	10	14	7	17	16	15	15			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-13-3			G-13-3			GF	
	ii.	Primary inner Spring			YR-10-11			YR-10-11			YR	
	iii.	Primary Damper			24691,23888,23837,24884			24919,23833,23827,24646			KONI	
	iv.	Secondary damper			4479,4635			8287,7003			KONI	
	v.	Lateral Damper			89			76			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1095/691,1185/691,1094/691,1184/691			1338/691,1441/691,1340/691,1442/691			KBI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									GMT	
	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									EMSON	
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.	5019	DISPATCH DATE				31.07.2015
2.	Railway	SCR	Type	LWACCN	Coach No.	15139	
3.	Booked to	SSE/C&W/BZA					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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	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 ²		6 –10 sec	6 Sec	
			Max Pressure in BC		3.80 ± 0.15 Kg/cm ²	3.80	
			All Brake are applied		OK	OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min		No brake application	OK	
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	ADVANCE	89/90		
	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	ORIENTAL				
	iii.	SEATS/ BERTHS	AAR KAY FOAMS				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	SALOON DOOR	KALSI				
	vii.	WATER TANKS	E C BLADES, SHIVALIK				
	viii.	UIC VESTIBULE	KRP				
	ix	FLOOR BOARD	TAYAL				
	X	PVC	RESPONSIVE				
10.							
	10.1	Modification / Trail (if any):			FITTED WITH BIO DIGESTER OF M/s RAIL FAB		
	10.2	Deviations if any:			NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5019		SCR		LACCN		15139		21-07-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156492						156493			
	ii.	Frame No.	FIAT-3979						SCI/FM-172			
	iii.	Bolster No.	4891-VT						4867-VT			
	iv.	Axle No.	C-4616		126987/476		126807/468		127030/476			
	v.	Wheel Dia.	916.00	916.00	918.00	918.00	916.50	916.50	918.00	918.00		
	vi.	Wheel Disc No.	06148/00210	06148/00001	06146/00087	6147/00097	6146-00199	6146-00193	06146-0127	06148-00186		
	vii.	R.B. Nos.	26452	27164	25667	25778	24684	24687	24360	25764		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	Secondary suspension load deflection Values:											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	G-15-3-156	G-12-11-3867	G-15-3-155	G-12-11-3903	G-15-3-113	G-12-11-4179	G-15-3-112	G-12-11-3977			
ii.	Ht. at test load	512	465	512	466	513	465	515	467			
iii.	Align .deviation	19	2	20	4	13	15	13	17			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-14-5			RSK-14-5			RSK	
	ii.	Primary inner Spring			YR-11-10			YR-11-10			YR	
	iii.	Primary Damper			24555,24694,24606,24485			24339,24604,24508,24816			KONI	
	iv.	Secondary damper			5202,5405			5074,5327			KONI	
	v.	Lateral Damper			L-3225			L-3219			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			15007/600,15020/600, B15101/600,15018/600			15019/600,15013/600, 15077/600,15003/600			FTI	
	viii.	Brake Disc									KBI,FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									GMT,MGN	
	xi.	Traction center make									SARITA,EM SON	
	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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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5014	DISPATCH DATE				31.07.2015
2.	Railway	SCR	Type	LWACCN	Coach No.	15143	
3.	Booked to	SSE/C&W/BZA					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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	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 ²		6 –10 sec	6 Sec	
			Max Pressure in BC		3.80 ± 0.15 Kg/cm ²	3.80	
			All Brake are applied		OK	OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min		No brake application	OK	
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	ADVANCE	85/87		
	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				VIBHU	
	iii.	SEATS/ BERTHS				AAR KAY FOAMS	
	iv.	BODY SIDE DOOR				JBM	
	v.	VESTIBULE SLIDING DOOR				KALSI	
	vi.	SALOON DOOR				KALSI	
	vii.	WATER TANKS				E C BLADES, SHIVALIK	
	viii.	UIC VESTIBULE				KRP	
	ix	FLOOR BOARD				TAYAL	
	X	PVC				FRIKMART	
10.							
	10.1	Modification / Trail (if any):			FITTED WITH BIO DIGESTER OF M/s RAIL FAB		
	10.2	Deviations if any:			NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5014		SCR		LACCN		15143		22-07-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156483						156482			
	ii.	Frame No.	FIAT-4106						FIAT-4093			
	iii.	Bolster No.	133/GT/ASR						4851-VT			
	iv.	Axle No.	128551/989		128587/989		128860/990		128606/989			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	918.00	918.00	918.00	918.00	918.00	918.00
	vi.	Wheel Disc No.	06147/00037	6147/0170	06148/00155	06147/00032	06147/00168	06148/00137	06146/00092	06148/00016	06148/00016	06148/00016
	vii.	R.B. Nos.	03703	04013	03904	04071	03623	03691	03855	03888	03888	03888
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	Secondary suspension load deflection Values:											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	G-15-03-016	G-12-11-3727	G-15-03-024	G-12-11-3892	G-15-03-026	G-12-11-3904	G-15-03-076-513	G-12-11-3876			
ii.	Ht. at test load	513	466	512	466	512	465	513	468			
iii.	Align .deviation	17	17	18	19	16	7	17	7			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-12-6			G-12-10			GF	
	ii.	Primary inner Spring			FSK-11-05			FSK-11-05			FSK	
	iii.	Primary Damper			1127,1254,1211,1271			733,410,1227,1220			GEREP	
	iv.	Secondary damper			4046,5024			5220,5025			KONI	
	v.	Lateral Damper			L-3132			L-3158			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			E15076/600,E15093/600 15081/600,E15079/600			E15013/600,E15027/600 E15011/600,E15017/600			FTI	
	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									MGN	
	xiv.	Traction centre elastic									SGA	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									W/BHAM	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									N/P	
	xix.	Fork make									SARITA	
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.	5022	DISPATCH DATE				31.07.2015
2.	Railway	SCR	Type	LWACCN	Coach No.	15140	
3.	Booked to	SSE/C&W/BZA					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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	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 ²		6 –10 sec	6 Sec		
		Max Pressure in BC		3.80 ± 0.15 Kg/cm ²	3.80		
		All Brake are applied		OK	OK		
7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min		No brake application	OK		
7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.		Brake must apply	OK		
8.	PAINTING DEATAILS:	TYPE OF PAINT		MAKE	AVERAGE GLOSS VALUE		
8.1	PAINT	PU PAINT		ADVANCE	88/90		
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					ORIENTAL	
iii.	SEATS/ BERTHS					AAR KAY FOAMS	
iv.	BODY SIDE DOOR					JBM	
v.	VESTIBULE SLIDING DOOR					KALSI	
vi.	SALOON DOOR					KALSI	
vii.	WATER TANKS					E C BLADES, AMIT,KUTEER	
viii.	UIC VESTIBULE					KRP	
ix	FLOOR BOARD					TAYAL	
X	PVC					RESPONSIVE	
10.							
10.1	Modification / Trail (if any):					FITTED WITH BIO DIGESTER OF M/s RAIL FAB	
10.2	Deviations if any:					NIL	



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5022		SCR		LACCN		15140		21-07-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156480						156481			
	ii.	Frame No.	FIAT-4105						FIAT-4095			
	iii.	Bolster No.	4825-P						4806-VT			
	iv.	Axle No.	129147/992		126665/480		129121/905		127890/987			
	v.	Wheel Dia.	915.50	915.50	915.50	915.50	915.50	915.50	916.00	916.00		
	vi.	Wheel Disc No.	142-10582	365-63307	333-63305	070-61077	026-61077	054-10584	169-51916	131-51908		
	vii.	R.B. Nos.	04012	04198	03971	04707	04215	04044	04664	01044		
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	Secondary suspension load deflection Values:											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	G-15-4-021	G-12-11-3950	G-15-4-021	G-12-11-4118	G-15-4-133	G-12-11-3861	G-15-4-004	G-12-11-3898			
ii.	Ht. at test load	513	466	513	466	513	467	513	467			
iii.	Align .deviation	17	12	19	15	14	8	14	7			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-12-10			G-12-10			GF	
	ii.	Primary inner Spring			FSK-15-01			FSK-15-01			FSK	
	iii.	Primary Damper			413,1240,745,691			793,712,945,512			GEREP	
	iv.	Secondary damper			5012,5145			5420,5029			KONI	
	v.	Lateral Damper			3114			2755			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			15006/600,15017/600 15003/600,15040/600			15005/600,15039/600 15009/600,15008/600			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									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				

LWACCN-5022



ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5008	DISPATCH DATE			30.07.2015	
2.	Railway	SCR	Type	LWACCN	Coach No.	15136	
3.	Booked to	SSE/C&W/BZA					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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	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 ²	6 –10 sec	6 Sec		
			Max Pressure in BC	3.80 ± 0.15 Kg/cm ²	3.80		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	ADVANCE	87/88		
	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			VIBHU		
	iii.	SEATS/ BERTHS			SAVITRI		
	iv.	BODY SIDE DOOR			JBM		
	v.	VESTIBULE SLIDING DOOR			KALSI		
	vi.	SALOON DOOR			KALSI		
	vii.	WATER TANKS			E C BLADES & SHIVALIK		
	viii.	UIC VESTIBULE			ELASTOMER		
	ix	FLOOR BOARD			TAYAL		
	X	PVC			RESPONSIVE		
10.							
	10.1	Modification / Trail (if any):	FITTED WITH BIO DIGESTER OF M/s RAIL FAB				
	10.2	Deviations if any:	NIL				

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5008		SCR		LACCN		15136		21-07-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156484						156485			
	ii.	Frame No.	FIAT-3923						FIAT-3980			
	iii.	Bolster No.	4749-P						4822-P			
	iv.	Axle No.	B-9859			128509/983			126170/471		128569/989	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	06148-00151	6147-00012	06148-00214	06148-00189	06146-00003	06147-00052	6147-00185	06148-00140		
	vii.	R.B. Nos.	04155	02174	01851	02399	04246	04756	01634	01870		
	viii.	R.B. Make	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	Secondary suspension load deflection Values:											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	G-15-04-085	G-12-11-4006	G-15-04-096	G-12-11-3732	G-15-04-005	G-12-11-3735	G-15-04-084	G-12-11-3728			
ii.	Ht. at test load	514	466	514	468	513	467	511	467			
iii.	Align .deviation	15	18	14	16	18	15	18	15			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			L&S-13-03			L&S-13-03			L&S	
	ii.	Primary inner Spring			FSK-15-01			FSK-15-01			FSK	
	iii.	Primary Damper			732,747,451,1111			716,751,407,1203			GEREP	
	iv.	Secondary damper			5449,5141			5033,5431			KONI	
	v.	Lateral Damper			3216			3230			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			15105/600,15015/600 1511/600,15016/600			15012/600,15015/600 15010/600,15006/600			FTI	
	viii.	Brake Disc									FTI	
	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									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.	5009	DISPATCH DATE				30.07.2015
2.	Railway	SCR	Type	LWACCN	Coach No.	15137	
3.	Booked to		SSE/C&W/BZA				
4.	Tare Weight of Coach		45.6 T				
5.	Carrying Capacity	Seating	72	Sleeping	72	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	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 ²		6 –10 sec	6 Sec	
			Max Pressure in BC		3.80 ± 0.15 Kg/cm ²	3.80	
			All Brake are applied		OK	OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min		No brake application	OK	
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	ADVANCE	85/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	KBI				
	ii.	CDTS/ BIO TOILET	SIL				
	iii.	SEATS/ BERTHS	AAR KAY FOAMS				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	SALOON DOOR	KALSI				
	vii.	WATER TANKS	E C BLADES & SHIVALIK				
	viii.	UIC VESTIBULE	KRP				
	ix	FLOOR BOARD	TAYAL				
	X	PVC	RESPONSIVE				
10.							
	10.1	Modification / Trail (if any):			FITTED WITH BIO DIGESTER OF M/s RAIL FAB		
	10.2	Deviations if any:			NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5009		SCR		LACCN		15137		20-07-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156478						156479			
	ii.	Frame No.	SCI/FM-166						FIAT-4102			
	iii.	Bolster No.	4625-P						4877-P			
	iv.	Axle No.	128119/984		129232/992		129319/982		128339/991			
	v.	Wheel Dia.	915.50	915.50	916.00	916.00	915.50	915.50	918.00	918.00		
	vi.	Wheel Disc No.	081-63302	153-63302	06146-00093	06147-00254	287-63302	077-11610	06146-00031	06148-00009		
	vii.	R.B. Nos.	04849	02701	04360	02645	04147	04050	03382	03162		
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	Secondary suspension load deflection Values:											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	G-15-3-018	G-12-11-3944	G-15-3-051	G-12-11-3978	G-15-3-061	G-12-11-3815	G-15-3-037	G-12-11-037			
ii.	Ht. at test load	512	466	513	467	514	467	514	467			
iii.	Align .deviation	18	18	20	21	15	11	15	4			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			G-12-10		G-12-10		GF			
	ii.	Primary inner Spring			FSK-11-5		FSK-11-5		FSK			
	iii.	Primary Damper			1856,531,311,383		636,1651,406,640		GEREP			
	iv.	Secondary damper			5051,5329		5328,5471		KONI			
	v.	Lateral Damper			L-3238		L-2963		KONI			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			1142/691,1171/691,1135/691,1170/691		1138/691,1174/691,1141/691,1175/691		KBI			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							MGN			
	x.	Lateral Bump stop							GMT,MGN			
	xi.	Traction center make							SARITA			
	xii.	Traction lever make							SARITA			
	xiii.	Ball joint traction lever							MGN			
	xiv.	Traction centre elastic							SGA			
	xv.	Secondary rubber pad							TESPAK			
	xvi.	Rubber spring							WBHAM			
	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					

Lwaccn5009



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5004	DISPATCH DATE				31.07.2015
2.	Railway	SCR	Type	LWACCN	Coach No.	15142	
3.	Booked to	SSE/C&W/BZA					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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)	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 ²		6 –10 sec	6 Sec	
			Max Pressure in BC		3.80 ± 0.15 Kg/cm ²	3.80	
			All Brake are applied		OK	OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min		No brake application	OK	
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	88/89		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT				KBI	
	ii.	CDTS/ BIO TOILET				AIR FLOW	
	iii.	SEATS/ BERTHS				AAR KAY FOAMS	
	iv.	BODY SIDE DOOR				JBM	
	v.	VESTIBULE SLIDING DOOR				KALSI	
	vi.	SALOON DOOR				KALSI	
	vii.	WATER TANKS				E C BLADES & SHIVALIK	
	viii.	UIC VESTIBULE				FRIKMART	
	ix	FLOOR BOARD				TAYAL	
	X	PVC				RESPONSIVE	
10.							
	10.1	Modification / Trail (if any):			FITTED WITH BIO DIGESTER OF M/s RAIL FAB		
	10.2	Deviations if any:			NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5004		SCR		LACCN		15142		22-07-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156486						156487			
	ii.	Frame No.	FIAT-3969						FIAT-4062			
	iii.	Bolster No.	4805-VT						4850-VT			
	iv.	Axle No.	125702/479		126640/480		125877/477		127901/987			
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	916.00	916.00	916.00	916.00		
	vi.	Wheel Disc No.	6147-00182	06148-00161	06146-00010	06148-00115	6147-00136	6147-00130	06145-00181	6146-00096		
	vii.	R.B. Nos.	25664	24326	25529	24947	25523	25621	26986	24964		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	Secondary suspension load deflection Values:											
	Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2			
			Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner		
i.	Make & nos.	G-15-3-100	G-12-11-3833	G-15-3-080	G-12-11-4043	G-15-3-088	G-12-11-3829	G-15-3-032	G-12-11-3821			
ii.	Ht. at test load	514	467	514	467	511	466	512	466			
iii.	Align .deviation	15	11	19	11	14	12	15	15			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-12-10			G-12-10			GF	
	ii.	Primary inner Spring			FSK-11-05			FSK-11-05			FSK	
	iii.	Primary Damper			748,405,1255,058			599,736,1261,453			GEREP	
	iv.	Secondary damper			5124,5363			5379,5059			KONI	
	v.	Lateral Damper			L-3137			L-3109			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1149/691,1221/691,1143/691,1220/691			1029/691,1123/691,1026/691,1124/691			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	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									W/BHAM	
	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

LWACCN-5004



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5013	DISPATCH DATE				31.07.2015
2.	Railway	SCR	Type	LWACCN	Coach No.	15138	
3.	Booked to	SSE/C&W/BZA					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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	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 ²		6 –10 sec	6 Sec		
		Max Pressure in BC		3.80 ± 0.15 Kg/cm ²	3.80		
		All Brake are applied		OK	OK		
7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min		No brake application	OK		
7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.		Brake must apply	OK		
8.	PAINTING DEATAILS:	TYPE OF PAINT		MAKE	AVERAGE GLOSS VALUE		
8.1	PAINT	PU PAINT		ADVANCE	86/87		
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					AIR FLOW	
iii.	SEATS/ BERTHS					AAR KAY FOAMS	
iv.	BODY SIDE DOOR					JBM	
v.	VESTIBULE SLIDING DOOR					KALSI	
vi.	SALOON DOOR					KALSI	
vii.	WATER TANKS					E C BLADES & SHIVALIK	
viii.	UIC VESTIBULE					KRP	
ix	FLOOR BOARD					TAYAL	
X	PVC					RESPONSIVE	
10.							
10.1	Modification / Trail (if any):					FITTED WITH BIO DIGESTER OF M/s RAIL FAB	
10.2	Deviations if any:					NIL	



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11.	12.	Bogie Details:	Shell No.		Railway		Type		Coach No.		Dispatch Date			
			5013		SCR		LACCN		15138		21-07-2015			
11.1	12.1	Wheel & Axle Details:	PP Side						NPP Side					
		i. Bogie No.	156488						156489					
		ii. Frame No.	FIAT-4091						SCI/FM-168					
		iii. Bolster No.	4882-VT						4855-VT					
		iv. Axle No.	127772/987			127773/987			128558/989			127883/987		
		v. Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00		
		vi. Wheel Disc No.	06148/ 00217	06146/ 00216	075- 10582	020- 63301	6147/0 0028	06146- 00193	345- 63302	187- 63305				
		vii. R.B. Nos.	24954	25639	25516	24331	25685	25654	26081	25634				
		viii. R.B. Make	SKF			SKF			SKF			SKF		
		ix. RB Type	UIC CARTRIDGE TAPER ROLLER BEARING											
11.2	12.2	Secondary suspension load deflection Values:												
		Description		Description		Secondary 1		Secondary 2		Secondary 1		Seconda		
						Outer	Inner	Outer	Inner	Outer	Inner	Outer		
i.	i.	Make & nos.	G-15-4- 038	G-12-11- 3812	G-15-4- 043	G-12-11- 3797	G-15-4- 001	G-12- 11-3857	G-15-4- 035	G-12- 11-3841				
ii.	ii.	Ht. at test load	514	466	514	465	514	465	514	466				
iii.	iii.	Align .deviation	15	8	14	8	17	13	16	13				
11.3	12.3	Items traceability:												
		Sno.	Item			PP Side Bogie			NPP side Bogie			Make		
		i.	Primary Outer Spring			G-12-10			G-12-10			GF		
		ii.	Primary inner Spring			G-12-05			G-12-05			GF		
		iii.	Primary Damper			508,690,488,306			792,530,700,743			GEREP		
		iv.	Secondary damper			4991,5021			5043,5309			KONI		
		v.	Lateral Damper			L-3132			L-3096			KONI		
		vi.	Yaw Damper									NIL		
		vii.	Brake cylinder & Caliper			15102/600,15032/600, 15095/600,15023/600			E15027/600,E15044/600, E15029/600,E15047/600			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									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	12.4	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.	5006	DISPATCH DATE				29.07.2015
2.	Railway	SCR	Type	LWACCN	Coach No.	15135	
3.	Booked to	SSE/C&W/BZA					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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	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 ²	6 –10 sec	6 Sec		
			Max Pressure in BC	3.80 ± 0.15 Kg/cm ²	3.80		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	ADVANCE	86/89		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	KBI				
	ii.	CDTS/ BIO TOILET	VIBHU				
	iii.	SEATS/ BERTHS	SAVITRI				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	SALOON DOOR	KALSI				
	vii.	WATER TANKS	E C BLADES & SHIVALIK				
	viii.	UIC VESTIBULE	KRP				
	ix	FLOOR BOARD	TAYAL				
	X	PVC	RESPONSIVE				
10.							
	10.1	Modification / Trail (if any):			FITTED WITH BIO DIGESTER OF M/s RAIL FAB		
	10.2	Deviations if any:			NIL		



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11.	12.	Bogie Details:	Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5006		SCR		LACCN		15135		20-07-2015	
11.1	12.1	Wheel & Axle Details:	PP Side				NPP Side					
		i. Bogie No.	156466				156467					
		ii. Frame No.	FIAT-4108				FIAT-4114					
		iii. Bolster No.	3300-VT				105/VTC/ASR					
		iv. Axle No.	125942/477		C-4765		127892/987		125687/479			
		v. Wheel Dia.	916.50	916.50	917.00	917.00	916.00	916.00	917.00	917.00		
		vi. Wheel Disc No.	303-63301	070-63305	104-10583	029-63301	229-10583	360-63305	128-10568	124-61077		
		vii. R.B. Nos.	03532	03913	04178	03659	04333	03654	03839	02458		
		viii. R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
		ix. RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	12.2	Secondary suspension load deflection Values:										
		Description		Description		Secondary 1		Secondary 2		Secondary 1		Seconda
						Outer	Inner	Outer	Inner	Outer	Inner	Outer
i.	i.	Make & nos.	G15-03-095	G13-05-5137	G15-03-083	G13-05-5234	G15-03-146	G13-05-5047	G15-03-070	G12-04-619		
ii.	ii.	Ht. at test load	512	463	512	465	511	466	513	465		
iii.	iii.	Align .deviation	16	13	15	11	16	24	17	26		
11.3	12.3	Items traceability:										
		Sno.	Item			PP Side Bogie		NPP side Bogie		Make		
		i.	Primary Outer Spring			G-12-6		G-12-6		GF		
		ii.	Primary inner Spring			FSK-15-01		FSK-15-01		FSK		
		iii.	Primary Damper			1234,425,736,432		493,719,1225,434		GEREP		
		iv.	Secondary damper			5266,5306		5343,5032		KONI		
		v.	Lateral Damper			3227		3229		KONI		
		vi.	Yaw Damper							NIL		
		vii.	Brake cylinder & Caliper			1025/691.1113/691 1018/691.1115/691		1035/691.1139/691 1019/691.1114/691		KBI		
		viii.	Brake Disc							KBI		
		ix.	Ball joint Control arm							MGN		
		x.	Lateral Bump stop							MGN,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	12.4	i.	Modification / Trial (if any):				NIL					
		ii.	Deviations (if any):				NIL					

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