



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5016	DISPATCH DATE				29.10.2015
2.	Railway	WR	Type	LWSCN1	Coach No.	15295	
3.	Booked to	SSE/C&W/BCT/M					
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	NEROLAC	87/88			
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				E C BLADES & SHIVALIK		
v	FLOOR BOARD				TAYAL		
vi	PVC FLOORING				RESPONSIVE		
vii	UIC VESTIBULE				ESCORTS		
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>	
			5016		WR		LWSCN		15295/C		15-10-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	156739					156758				
	ii.	<b>Frame No.</b>	FIAT-3197					ECBT-902				
	iii.	<b>Bolster No.</b>	5150-GT					4961-VT				
	iv.	<b>Axle No.</b>	128588/989		128927/986		126923/476		125567/377			
	v.	<b>Wheel Dia.</b>	915.50	916.00	915.00	915.50	917.00	917.00	917.00	917.00		
	vi.	<b>Wheel Disc No.</b>	6222-00075	6207-00064	6207-00222	6207-00212	6207-00086	06222-00181	6225-00210	6207-00081		
	vii.	<b>R.B. Nos.</b>	30056	30516	30140	02739	22221	30057	21717	23282		
	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-14-11-1053	DN-14-10-790	DN-14-11-1078	DN-14-10-779	G-14-12-026	G-14-12-019	G-14-12-043	G-14-12-168			
ii.	<b>Ht. at test load</b>	515	469	516	471	516	469	515	470			
iii.	<b>Align .deviation</b>	12	11	11	9	2	10	6	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-14-11			G-14-11			GF	
	ii.	Primary inner Spring			G-14-11			G-14-11			GF	
	iii.	Primary Damper			26622,26698,26737,26482			25423,25262,25422,25434			KONI	
	iv.	Secondary damper			1107,1064			1109,1344			GEREP	
	v.	Lateral Damper			189			610			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1377/691,1451/691,1374/691,1448/691			1311/691,1399/691,1313/691,1402/691			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,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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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5010	DISPATCH DATE				29.10.2015	
2.	Railway	WR	Type	LWSCN1	Coach No.	15291		
3.	Booked to			SSE/C&W/BCT/M				
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	NEROLAC	85/86			
	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			E C BLADES, MANOJ & SHIVALIK			
	v	FLOOR BOARD			TAYAL			
	vi	PVC FLOORING			RESPONSIVE			
	vii	UIC VESTIBULE			ESCORTS			
	viii	VESTIBULE SLIDING DOOR			KALSI			
10.								
	10.1	Modification / Trail (if any):				NIL		
	10.2	Deviations if any:				NIL		



11.	<b>Bogie Details:</b>		<b>Shell No.</b>	<b>Railway</b>	<b>Type</b>	<b>Coach No.</b>	<b>Dispatch Date</b>			
			5010	WR	LWSCN	15291/C	13-10-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>				<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156740				156757			
	ii.	<b>Frame No.</b>	FIAT-3174				ECBT-912			
	iii.	<b>Bolster No.</b>	5139-GT				5037-VT			
	iv.	<b>Axle No.</b>	126934/474		125724/473		128939/986		128498/983	
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	917.00	917.00	916.00	916.00
	vi.	<b>Wheel Disc No.</b>	6211-00120	6207-00148	6192-00098	6192-00125	6202-00101	6191-00187	6191-00013	6198-00148
	vii.	<b>R.B. Nos.</b>	03429	34757	02952	30164	22231	29648	34739	34005
	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-14-11-1020	DN-14-10-755	DN-14-11-1151	DN-14-10-734	G-14-12-005	G-14-12-196	G-14-12-069	G-14-12-001	
ii.	<b>Ht. at test load</b>	515	469	515	472	514	469	515	470	
iii.	<b>Align .deviation</b>	10	13	10	14	5	12	5	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-14-11		G-14-11		GF	
	ii.	Primary inner Spring			G-14-12		G-14-12		GF	
	iii.	Primary Damper			25303,25124,25270,25271		25412,25277,25136,25309		KONI	
	iv.	Secondary damper			1083,1094		1360,1078		GEREP	
	v.	Lateral Damper			95		601		GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			1380/691,1462/691,1381/691,1463/691		1311/691,1487/691,1310/691,1408/691		KBI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							MGN,GMT	
	x.	Lateral Bump stop							MGN	
	xi.	Traction center make							SARITA	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							GMT,MGN	
	xiv.	Traction centre elastic							SGA,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, 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.	5048	DISPATCH DATE				30.10.2015
2.	Railway	WR	Type	LWSCN1	Coach No.	15294	
3.	Booked to	SSE/C&W/BCT/M					
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	NEROLAC	86/87			
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				E C BLADES, MANOJ & SHIVALIK		
v	FLOOR BOARD				TAYAL		
vi	PVC FLOORING				RESPONSIVE		
vii	UIC VESTIBULE				ESCORTS		
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>			
			5048	WR	LWSCN	15294	14-10-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>				<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156767				156768			
	ii.	<b>Frame No.</b>	ECBT-906				ECBT-919			
	iii.	<b>Bolster No.</b>	5151-GT				5038-VT			
	iv.	<b>Axle No.</b>	128828/990		127977/988		127829/987		128287/991	
	v.	<b>Wheel Dia.</b>	917.00	917.00	917.00	917.50	917.00	917.00	917.50	917.50
	vi.	<b>Wheel Disc No.</b>	6207-00071	6222-00075	6207-00205	6207-00090	6198-00122	6212-00098	6232-00012	6191-00165
	vii.	<b>R.B. Nos.</b>	22222	22250	02424	02419	22224	02966	03247	21824
	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>	G-14-12-047	G-14-12-262	G-14-12-035	G-14-12-198	G-14-12-055	G-14-12-165	G-14-12-018	G-14-12-195	
ii.	<b>Ht. at test load</b>	513	471	513	472	515	470	514	471	
iii.	<b>Align .deviation</b>	2	9	3	11	5	8	6	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-14-11		G-14-11		GF	
	ii.	Primary inner Spring			G-14-12		G-14-12		GF	
	iii.	Primary Damper			25248,25154,25288,25443		25299,25283,25343,25400		KONI	
	iv.	Secondary damper			1122,1050		1320,1077		GEREP	
	v.	Lateral Damper			489		508		GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			1320/691,1404/691,1318/691,1403/691		1121/691,1215/691,1118/691,1213/691		KBI	
	viii.	Brake Disc							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.	5050	DISPATCH DATE				03.11.2015
2.	Railway	WR	Type	LWSCN1	Coach No.	15293	
3.	Booked to	SSE/C&W/BCT/M					
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	1104	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	85/85		
	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		SUKATA, JBM			
	iv	WATER TANKS		E C BLADES, MANOJ & SHIVALIK			
	v	FLOOR BOARD		TAYAL			
	vi	PVC FLOORING		RESPONSIVE			
	vii	UIC VESTIBULE		ESCORTS			
	viii	VESTIBULE SLIDING DOOR		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>	
			5050		WR		LSCN		15293		21-10-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156783						156784			
	ii.	<b>Frame No.</b>	SCI/FM-187						FIAT-4387			
	iii.	<b>Bolster No.</b>	5186-P						5177-VT			
	iv.	<b>Axle No.</b>	128211/984			127764/987			128340/991		125854/477	
	v.	<b>Wheel Dia.</b>	917.00	917.00	917.00	917.00	917.00	917.00	916.00	916.00	916.00	916.00
	vi.	<b>Wheel Disc No.</b>	6219-00119	6191-00031	6211-00029	6211-00119	6228-00186	7147-00044	6225-00090	6192-00089	6225-00090	6192-00089
	vii.	<b>R.B. Nos.</b>	02560	29449	29904	35316	30165	29632	34753	29466	34753	29466
	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>	<b>Outer</b>	<b>Inner</b>	
i.	<b>Make &amp; nos.</b>	G-14-12-012	G-14-12-086	G-14-12-013	G-14-12-055	G-14-12-064	G-14-12-124	G-14-12-014	G-14-12-074	G-14-12-014	G-14-12-074	
ii.	<b>Ht. at test load</b>	513	471	515	469	514	471	514	469	514	469	
iii.	<b>Align .deviation</b>	3	10	2	11	2	9	5	13	5	13	
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-14-11			G-14-11			GF	
	ii.	Primary inner Spring			G-14-12			G-14-12			GF	
	iii.	Primary Damper			26494,26501,26489,26631			26542,26656,26661,26784			KONI	
	iv.	Secondary damper			1097,1168			1116,1824			GEREP	
	v.	Lateral Damper			784			466			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			K15027/600,K15033/600, K15035/600,K15035/600			H15060/600,H15123/600, H15049/600,H15119/600			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,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				

LSCN-5050





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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5005	DISPATCH DATE				04.11.2015
2.	Railway	WR	Type	LWSCN1	Coach No.	15296	
3.	Booked to	SSE/C&W/BCT/M					
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	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		VIBGYOR	85/86	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
I	BRAKE EQUIPMENT				KBI		
li	SEAT & BERTH				SAVITRI		
lii	BODY SIDE DOORS				SUKATA, JBM		
lv	WATER TANKS				E C BLADES, SHIVALIK		
v	FLOOR BOARD				TAYAL		
vi	PVC FLOORING				RESPONSIVE		
vii	UIC VESTIBULE				ESCORTS		
viii	VESTIBULE SLIDING DOOR				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>		
			5005		WR		LSCN		15296		20-10-2015		
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	156777						156778				
	ii.	<b>Frame No.</b>	VS-34						VS-35				
	iii.	<b>Bolster No.</b>	4945-VT						5134-VT				
	iv.	<b>Axle No.</b>	125826/477		126783/468		127987/988		Z-3557				
	v.	<b>Wheel Dia.</b>	915.00	915.00	915.00	915.00	916.00	916.00	916.00	916.00			
	vi.	<b>Wheel Disc No.</b>	7150-00053	7166-00170	7166-00067	7166-00032	6222-00045	7166-00199	6222-00089	7166-00044			
	vii.	<b>R.B. Nos.</b>	33976	30137	35299	34662	29444	34852	33987	30162			
	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>	G-14-12-093	G-14-12-043	G-14-12-064	G-14-12-NIL	G-14-12-045	G-14-12-113	G-14-12-056	G-14-12-105				
ii.	<b>Ht. at test load</b>	514	469	516	469	513	472	513	472				
iii.	<b>Align .deviation</b>	4	14	2	11	2	7	4	8				
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-14-11			G-14-11			GF		
	ii.	Primary inner Spring			G-14-12			G-14-12			GF		
	iii.	Primary Damper			26594,26749,26620,26526			26635,26694,26507,26483			KONI		
	iv.	Secondary damper			1526,817			103,1328			GEREP		
	v.	Lateral Damper			193			470			GEREP		
	vi.	Yaw Damper									NIL		
	vii.	Brake cylinder & Caliper			1775/691,1839/691,1773/691,1840/691			1331/691,1382/691,1332/691,1379/691			KBI		
	viii.	Brake Disc									KBI		
	ix.	Ball joint Control arm									GMT		
	x.	Lateral Bump stop									MGN		
	xi.	Traction center make									EMSON, 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									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.	5054	DISPATCH DATE				05.11.2015
2.	Railway	WR	Type	LWSCN1	Coach No.	15297	
3.	Booked to	SSE/C&W/BCT/M					
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		1104	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		VIBGYOR	85/87	
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				SUKATA, JBM		
iv	WATER TANKS				E C BLADES, SHIVALIK		
v	FLOOR BOARD				TAYAL		
vi	PVC FLOORING				RESPONSIVE		
vii	UIC VESTIBULE				ESCORTS		
viii	VESTIBULE SLIDING DOOR				HANSPAL		
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



11.	<b>Bogie Details:</b>		<b>Shell No.</b>	<b>Railway</b>	<b>Type</b>	<b>Coach No.</b>	<b>Dispatch Date</b>			
			5054	WR	LSCN	15297	20-10-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>				<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156745				156746			
	ii.	<b>Frame No.</b>	FIAT-4323				FIAT-4235			
	iii.	<b>Bolster No.</b>	5153-VT				5114-P			
	iv.	<b>Axle No.</b>	128150/984		125813/477		129184/992		A-2861	
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	915.00	915.00	915.00	915.00
	vi.	<b>Wheel Disc No.</b>	7166-00165	6222-00035	6222-00093	6222-00044	7172-00112	6192-00001	06222-00050	7150-00176
	vii.	<b>R.B. Nos.</b>	01658	01131	30147	03307	34649	29920	01122	04680
	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>	G-14-12-113	G-14-12-058	G-14-12-928	G-14-12-075	G-14-12-008	G-14-12-064	G-14-12-026	G-14-12-087	
ii.	<b>Ht. at test load</b>	515	471	510	470	513	470	515	471	
iii.	<b>Align .deviation</b>	3	8	3	13	4	9	3	4	
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-14-11			G-14-11			GF	
	ii.	Primary inner Spring	G-14-12			G-14-12			GF	
	iii.	Primary Damper	26830,26642,26787,26550			26506,26486,26616,26758			KONI	
	iv.	Secondary damper	1342,1360			1669,1081			GEREP	
	v.	Lateral Damper	72			135			GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper	15161/600,15138/600,15163/600,15155/600			15103/600,15167/600,15174/600,15170/600			FTI	
	viii.	Brake Disc							FTI,KBI	
	ix.	Ball joint Control arm							GMT	
	x.	Lateral Bump stop							MGN	
	xi.	Traction center make							EMSON, 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							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.	5027	DISPATCH DATE				05.11.2015
2.	Railway	WR	Type	LWSCN1	Coach No.	15298	
3.	Booked to	SSE/C&W/BCT/M					
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>	Max Pressure in BC	6 –10 sec	6 Sec		
		All Brake are applied		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
				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	85/87			
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				SUKATA, JBM		
iv	WATER TANKS				E C BLADES, SHIVALIK		
v	FLOOR BOARD				TAYAL		
vi	PVC FLOORING				RESPONSIVE		
vii	UIC VESTIBULE				ESCORTS		
viii	VESTIBULE SLIDING DOOR				HANSPAL		
10.							
10.1	Modification / Trail (if any):					NIL	
10.2	Deviations if any:					NIL	



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5027		WR		LSCN		15298		23-10-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156789						156790			
	ii.	Frame No.	FIAT-4334						FIAT-4077			
	iii.	Bolster No.	5171-VT						5048-VT			
	iv.	Axle No.	125791/473		129040/986		126193/471		128758/990			
	v.	Wheel Dia.	917.00	917.00	915.00	915.00	915.00	915.00	917.00	917.00		
	vi.	Wheel Disc No.	6202-00121	6201-00069	06232-00118	6191-00123	6212-00152	06149-00121	6202-00187	6202-00096		
	vii.	R.B. Nos.	02085	16894	22230	34347	22220	09451	23066	01388		
	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-14-12-080	G-14-12-027	G-14-12-081	G-14-12-133	G-14-12-096	G-14-12-050	G-14-12-105	G-14-12-028		
ii.	Ht. at test load		513	471	514	472	514	471	516	471		
iii.	Align .deviation		3	9	4	12	5	11	5	11		
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-14-11			G-14-11			GF	
	ii.	Primary inner Spring			G-14-12			G-14-12			GF	
	iii.	Primary Damper			26485,26255,26528,26540			26278,26366,26537,26331			KONI	
	iv.	Secondary damper			1339,1278			1340,1355			GEREP	
	v.	Lateral Damper			451			46			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			H15188/600,K15014/600, H15193/600,K15012/600			K15017/600,K15011/600, K15026/600,K15005/600			FTI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									EMSON	
	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.	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.	5056	DISPATCH DATE				28.10.2015
2.	Railway	WR	Type	LWSCN1	Coach No.	15289	
3.	Booked to		SSE/C&W/BCT/M				
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	1104		
	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	NEROLAC	86/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i	BRAKE EQUIPMENT	KBI				
	ii	SEAT & BERTH	OVPL				
	iii	BODY SIDE DOORS	JBM				
	iv	WATER TANKS	E C BLADES, & SHIVALIK				
	v	FLOOR BOARD	TAYAL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	ESCORTS				
	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>	
			5056		WR		LWSCN1		15289/C		05-10-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	156726					156727				
	ii.	<b>Frame No.</b>	SCI-FM-243					SCI-FM-244				
	iii.	<b>Bolster No.</b>	5079-GT					5094-P				
	iv.	<b>Axle No.</b>	128390/983		127996/987		129357/982		127802/987			
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	916.50	916.50	916.00	916.00		
	vi.	<b>Wheel Disc No.</b>	7172-00207	06228-00123	6191-00138	6219-00199	6222-00133	6202-00073	7172-00109	6219-00167		
	vii.	<b>R.B. Nos.</b>	34429	29538	3433	29561	29552	29534	34392	29541		
	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-14-3-903	G-14-12-172	DN-14-1-197	G-14-12-197	DN-13-6-117	G-14-12-233	DN-13-6-114	G-14-12-201			
ii.	<b>Ht. at test load</b>	516	472	516	472	512	471	513	472			
iii.	<b>Align .deviation</b>	10	10	12	10	16	9	17	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-14-11			G-14-11			GF	
	ii.	Primary inner Spring			G-14-12			G-14-12			GF	
	iii.	Primary Damper			25705,25508,25655,26085			23523,25607,25208,26230			KONI	
	iv.	Secondary damper			1282,1257			131,120			GEREP	
	v.	Lateral Damper			319			299			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1236/691,1714/691 1237/691,1290/691			1615/691,1683/691 1617/691,1685/691			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									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									SARITA	
11.4	i.	<b>Modification / Trial (if any):</b>						NIL				
	ii.	<b>Deviations (if any):</b>						NIL				

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