



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4034	DISPATCH DATE				21.07.2015
2.	Railway	NR	Type	LWSCZ	Coach No.	143601	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
	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	86/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
	i.	BRAKE EQUIPMENT			KBI		
	iii.	CDTS			NA		
	iv.	SEAT & BERTH			SUTLEJ		
	v.	BODY SIDE DOORS			JBM		
	vi.	SALOON COMPTT DOORS			NA		
	vii.	VESTIBULE SLIDING DOOR			KALSI		
	viii.	WATER TANKS			RAIL FAB		
	ix	UIC VESTIBULE			KRP		
	x	LUGGAGE RACK			HANSPAL		
	XI	FLOOR BOARD			TAYAL		
	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>			
			4034	NR	LWSCZ	143601	09-04-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>				<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156265				156264			
	ii.	<b>Frame No.</b>	FIAT-3901				FIAT-3860			
	iii.	<b>Bolster No.</b>	4642-P				4640-P			
	iv.	<b>Axle No.</b>	129035/986		106641/632		126883/470		126394/474	
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	916.00	916.00	916.50	916.50
	vi.	<b>Wheel Disc No.</b>	006-10559	239-10570	135-10582	088-10583	132-63301	141-10582	082-63301	272-63301
	vii.	<b>R.B. Nos.</b>	31114	29885	30278	30267	32208	30406	32534	02400
	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>	CMAFJ-14-09-9514	CMAFJ-13-05-9513	CMAFJ-14-09-9514	CMAFJ-13-05-9513	CMAFJ-14-09-9514	CMAFJ-13-05-9513	CMAFJ-14-09-9514	CMAFJ-13-05-9513	
ii.	<b>Ht. at test load</b>	508	466	510	468	511	468	511	468	
iii.	<b>Align .deviation</b>	19	20	20	20	10	15	12	16	
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-14-05			RSK-14-05			RSK	
	ii.	Primary inner Spring	RSK-14-05			RSK-14-05			RSK	
	iii.	Primary Damper	1009,856,854,987			846,665,821,1171			GEREP	
	iv.	Secondary damper	305,288			265,271			GEREP	
	v.	Lateral Damper	2977			2945			KONI	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper	1055/691,1088/691,1056/691,1085/691			14694/691,14877/691, E09974/691,E09970/691			KBI	
	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							GMT	
	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,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.	4035	DISPATCH DATE			04.08.2015	
2.	Railway	NR	Type	LWSCZ	Coach No.	143602	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
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	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		GS	86/88		
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:			Make			
i.	BRAKE EQUIPMENT			FAIVELEY			
iii.	CDTS			RAIL FAB			
iv.	SEAT & BERTH			SUTLEJ			
v.	BODY SIDE DOORS			JBM			
vi.	SALOON COMPTT DOORS			NA			
vii.	VESTIBULE SLIDING DOOR			KALSI			
viii.	WATER TANKS			RAIL FAB			
ix	UIC VESTIBULE			FRIKMART			
x	LUGGAGE RACK			HANSPAL			
XI	FLOOR BOARD			TAYAL			
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			
			4035	NR	LWSCZ	143602/C	30-06-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	156423				156425			
	ii.	Frame No.	SCI/FM-167				FIAT-3311			
	iii.	Bolster No.	4773-P				4754-P			
	iv.	Axle No.	129059/986	A-2857		C-4097		128695/939		
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	915.00	915.00	916.00	916.00
	vi.	Wheel Disc No.	093-63309	121-63301	255-63309	123-63309	254-11611	146-10582	060-63309	133-63309
	vii.	R.B. Nos.	04711	04158	04811	03581	04776	03646	04813	04545
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	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.	DN-12-02-2616	G-13-05-568	DN-12-02-2656	G-13-05-5156	DN-12-02-2568	G-13-05-5298	DN-12-02-2580	G-13-05-5066	
ii.	Ht. at test load	507	465	508	466	508	466	508	467	
iii.	Align .deviation	21	18	18	21	20	11	21	11	
11.3	<b>Items traceability:</b>									
	Sno.	Item	PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring	G-12-6			G-12-6			GF	
	ii.	Primary inner Spring	YR-12-6			YR-12-6			YR	
	iii.	Primary Damper	2428,2497,2444,2446			2540,2449,2513,2466			GEREP	
	iv.	Secondary damper	4179,4182			4732,4453			KONI	
	v.	Lateral Damper	42			465			GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper	E15087/600,E15092/600, E15089/600,E15096/600			E15024/600,E15050/600, E15030/600,E15046/600			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							BATEGU	
	xvii.	Anti roll bar make							EMSON	
	xviii.	Ball joint roll link							SARITA	
	xix.	Fork make							SARITE,EMS ON	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

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1.	SHELL No.	4033	DISPATCH DATE			19.08.2015	
2.	Railway	NR	Type	LWSCZ	Coach No.	143604	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
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		GS	87/90	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
i.	BRAKE EQUIPMENT			FAIVELEY			
iii.	CDTS			NA			
iv.	SEAT & BERTH			SUTLEJ			
v.	BODY SIDE DOORS			JBM			
vi.	SALOON COMPTT DOORS			NA			
vii.	VESTIBULE SLIDING DOOR			KALSI			
viii.	WATER TANKS			RAIL FAB			
ix	UIC VESTIBULE			FRIKMART			
x	LUGGAGE RACK			HANSPAL			
XI	FLOOR BOARD			TAYAL			
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>	
			4033		NR		LWSCZ		143604		22-07-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156508						156509			
	ii.	<b>Frame No.</b>	FIAT-SCI/FM-182						FIAT-4128			
	iii.	<b>Bolster No.</b>	4879-P						4868-VT			
	iv.	<b>Axle No.</b>	126070/475		125764/473		126008/475		128341/991			
	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>	6147-00135	06147-00037	6147-00128	6147-00081	6147-00148	6147-00180	06146-00182	06146-00161		
	vii.	<b>R.B. Nos.</b>	25872	26463	25619	25107	24410	25194	25862	24095		
	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-12-09-2049	G-12-11-3834	DN-12-08-2734	G-12-11-3734	DN-12-09-2592	G-12-11-3921	DN-12-08-2044	G-12-11-3932			
ii.	<b>Ht. at test load</b>	509	467	507	467	511	467	510	466			
iii.	<b>Align .deviation</b>	16	12	19	15	12	7	14	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			RSK-13-03			YR-10-10			RSK/YR	
	ii.	Primary inner Spring			RSK-12-02			RSK-12-02			RSK	
	iii.	Primary Damper			24387,25032,24565,24383			23820,24343,24601,24372			KONI	
	iv.	Secondary damper			5149,5349			5011,5406			KONI	
	v.	Lateral Damper			L-3105			L-3218			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			15049/600,E13433/600, E15041/600,E15042/600			E15071/600,E15060/600, E15067/600,E15055/600			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									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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Form No. : QMF 9454; Version: 1

1.	SHELL No.	4002	DISPATCH DATE				23.07.2015
2.	Railway	NR	Type	LWSCZ	Coach No.	143603	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
	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	89/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT			KBI		
	iii.	BIO TANK			ORIENTAL		
	iv.	SEAT & BERTH			SUTLEJ		
	v.	BODY SIDE DOORS			JBM		
	vi.	SALOON COMPTT DOORS			NA		
	vii.	VESTIBULE SLIDING DOOR			KALSI		
	viii.	WATER TANKS			RAIL FAB		
	ix	UIC VESTIBULE			SUNCREAST		
	x	LUGGAGE RACK			HANSPAL		
	XI	FLOOR BOARD			TAYAL		
	XII	PVC			RESPONSIVE		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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11.	12.	<b>Bogie Details:</b>	<b>Shell No.</b>	<b>Railway</b>	<b>Type</b>	<b>Coach No.</b>	<b>Dispatch Date</b>				
			4002	NR	LWSCZ	143603/C	27-06-2015				
11.1	12.1	<b>Wheel &amp; Axle Details:</b>	<b>PP Side</b>				<b>NPP Side</b>				
		i. <b>Bogie No.</b>	156407				156408				
		ii. <b>Frame No.</b>	FIAT-4059				FIAT-3906				
		iii. <b>Bolster No.</b>	4649-P				4756-P				
		iv. <b>Axle No.</b>	128147/984		126189/471		125883/477		125820/477		
		v. <b>Wheel Dia.</b>	915.00	915.00	915.00	915.00	915.00	915.00	915.00	915.00	
		vi. <b>Wheel Disc No.</b>	013-63307	192-63307	139-63301	324-63302	128-63307	239-63302	166-63307	336-63302	
		vii. <b>R.B. Nos.</b>	02195	03847	04583	02733	02470	04180	01746	02377	
		viii. <b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN		
		ix. <b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	12.2	<b>Secondary suspension load deflection Values:</b>									
		<b>Description</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
i.	i.	<b>Make &amp; nos.</b>	AFJ-14-9-59	AFJ-14-5-91	AFJ-14-9-74	AFJ-14-5-22	AFJ-14-9-53	AFJ-14-5-16	AFJ-14-9-62	AFJ-14-5-34	
ii.	ii.	<b>Ht. at test load</b>	512	465	512	468	510	468	512	468	
iii.	iii.	<b>Align .deviation</b>	18	12	20	13	8	7	10	9	
11.3	12.3	<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-12-6		G-12-6		GF		
		ii.	Primary inner Spring		G-12-5		G-12-5		GF		
		iii.	Primary Damper		24847,23830,24889,24649		2450,24339,24614,23848		KONI		
		iv.	Secondary damper		4733,4848		4303,4267		KONI		
		v.	Lateral Damper		2765		1289		KONI		
		vi.	Yaw Damper						NIL		
		vii.	Brake cylinder & Caliper		0976/691,01052/691 0974/691,01050/691		09073/691,10045/691 09075/691,01051/691		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,GMT		
		xv.	Secondary rubber pad						TESPAK		
		xvi.	Rubber spring						BATEGU		
		xvii.	Anti roll bar make						EMSON		
		xviii.	Ball joint roll link						SARITA		
		xix.	Fork make						SARITA		
11.4	12.4	i.	<b>Modification / Trial (if any):</b>				NIL				
		ii.	<b>Deviations (if any):</b>				NIL				

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