## Formset #FS015 Trikes with Motorcycle Controls For the final inspection of class LE1 vehicles [with motorcycle controls] of a GVM of less than 1000kg

-					-		
#	vehicle	method	feature	required status	stds ref	V	X
1	On road	visual	Stance	Normal attitude front to rear and side to side with normal wheel			
	wheels on		• • • • • • • • • • • • • • • • • • • •	alignments			
2	level surface	mooouro 9	Trook 9	Contro of turo troode DH to LH			
2		measure a	Wheelbace				
		record	wneelbase	Vertical centreline of front wheel to vertical centre rear			
3		visually	Ground	<ul> <li>no part of the vehicle contacts the ground when the front tyre and either</li> </ul>			
		assess	clearance	rear tyre is deflated.			
4		visually		All exposed edges have minimum edge radii of 3mm			
		assess	Body [if fitted]	and body forward contours are pedestrian friendly			
5				Body form strongth is adequate to carry component luggage and			
5							
_							
6				Body to frame mountings are of adequate strength and inter-dependence.			
7				Clearance will be maintained between body, including mudguards and all			
				moving parts			
8				• Seating may be tandem and / or side by side. A formed and padded seat.			
			Seating	securely fastened consistent with vertical & longitudinal occupant loading.			
				exists for each occupant			
0				The combination of cost and feet support allows each percenter to be			
3				The combination of seat and he able to bupport allows each passenger to be			
				reasonable located and be able to brace against the dynamic forces			
<u> </u>				potentially presented by the vehicle.			
10				The drivers seat centreline is either on the vehicle centreline or offset to			
1				the right side of the vehicle. Where the driver's seat is offset, the controls			
				are arranged in front of the seating position.			
11				Seat belts are not required but where fitted they must comply with the			
				relevant mounting requirements as per the LVV Code of Construction			
12			Mudauarde	Effectively mounted mudguards extending the full width of the two and at		┝─┤	
12			maayaalas	least 1/3 of the tyre circumference cover all wheels			
40		V Carraller					
13	vvneeis free	visually	_	Drawing showing material specification and sizes and pre-paint inspection			
	with vehicle	assess, reter	Frame	data is available. Alternatively, the vehicle has had extensive use and a			
	at eye level	to drawing		detailed visual inspection of all stress areas has not revealed any			
		and data		structural deterioration, with Certifier to note specifically this condition.			
		provided.					
14				Weld appearance is sound and assurance of weld quality is available.			
15				Braces and gussets are installed where necessary to increase torsion			
				canability & reduce localised stress narticularly where frame is attached to			
				donor narte			
16				Denos parto ero fit fon further con tico			
10				Donor parts are fit for further service.			
17				Component to frame mountings are of adequate design for purpose			
18				<ul> <li>All mounting points through hollow sections are crush resistant</li> </ul>			
19				All fastenings are of adequate size, strength and correctly torqued.			
20				Steering stem spigotted where welded			
21				Used labora, where used, are of tubular section with alread and a brased			
21			Stearing	<ul> <li>nanuebals, where used, are or tubular section with closed ends, braced as personally to cope with staaring leads without successing deflection.</li> </ul>			
			Steering	as necessary to cope with steering loads without excessive deliection.	-		
22				<ul> <li>Steering head bearings are suitable for vehicle mass and potential</li> </ul>			
				performance, correctly adjusted and adequately sealed against water and			
				dust.			
23				Draglinks, where fitted, are capable of resisting strut loading and bending		l T	
				due to offset design.			
24				thread engagement inspection holes are present in adjustable links			
25	L		ł	Steering trail is maintained either all positive or all pegative throughout			
20							
00						$ \vdash $	
20				Any steering dampers must resist steering forces only throughout full			
L_				steering movement available.			
27				• Full steering movement between positive stops must be available over full			
				suspension travel.			
28			Front and rear	Fork leg and axle sections are adequate to resist steering and braking			
			suspension	loads consistent with installed rake. Triple clamps sourced from donor			
				motorcycles are fit for any shear loads occurring in this application			
29			¦	Weld appearance is sound and assurance of weld quality is available			
20				- word appearance is sound and assurance of weld yuality is available.		┝──┤	
30				Springs are retained with suspension at full droop			
31				Stanchion and sliders on extended tele-forks are each single piece			
				construction			
32				Critical fasteners are provided with locking system			
33				Sliding and rotating bearings are adequately retained and dust and water			
				protected			
1			1		1		

#	vehicle	method	feature	required status	stds ref	V	X
34	Wheels free	Visually		Ball joints operate within design angles at all times			
35	with vehicle	assess, refer		Suspension location and damping member mountings transfer load			
	at eye level	to drawing		directly to frame and are fit for loading consistent with vehicle			
20		and data		performance.			
30		provided.		<ul> <li>Suspension joints are able to articulate freely within full range of suspension movement</li> </ul>			
37				Suspension design geometry avoids excessive camber change due to			
01				bump loading			
38				Vehicle occupants are protected from moving parts			
39			Controls,	• These hand controls can be operated without moving the applicable hand			
	Wheels free		instruments &	from the handlebar grips, lock to lock:			
			fittings	1. Turn signal [correct logic with right or left hand operation optional]			
				<ol> <li>Horn [push activated, right or left hand operation optional]</li> <li>Headlamp beam [right or left hand operation optional]</li> </ol>			
				4. Front wheel brake [right hand only]			
				5. Throttle [right hand only, self closing clockwise]			
				6. Clutch [left hand only - if applicable]			
40				<ul> <li>Foot controls are operated by pedals adjacent to the natural foot rest</li> </ul>			
				position:			
				Brake [right side of control group] *			
				Clutch [left side of control group]     *note exception for disability compensation			
				Gearshift mechanism positive and logical for sequential operation			
41				Turn signal and high beam visual indicators fitted			
42				<ul> <li>Brake light switched by both hand and foot brakes</li> </ul>			
43				Speedometer [with calibration certificate for 100km/hr] fitted and in			
				working order.			
44				Where a wind deflector is fitted it provides clear forward vision for the			
				driver over the top and evidence is produced that it is made from an			
45				approved snatterproof material.			
45				<ul> <li>Where a windscreen is filled it is made from approved automotive laminated safety class with full edge framing and is fitted with an electric</li> </ul>			
				wiper mechanism capable of maintaining adequate driving vision. A			
				windscreen washer is also fitted and operable.			
46				Rear vision mirror[s] give adequate field of view [one mirror obligatory]			
47				<ul> <li>All control surfaces and footrests have an anti-slip finish</li> </ul>			
48				Footrests available for each occupant foot, vertical load capability to			
40	Wheels free		Dewer unit and	exceed 100kg per toot position.			
49	with vehicle		fransmission	<ul> <li>Mountings are adequate in operation:</li> <li>to withstand shock torque loading</li> </ul>			
	at eye level		installation	<ol> <li>to prevent non-essential contact with other components</li> </ol>			
50				Fabricated component weld appearance is sound and assurance of weld			
				quality is available.			
51				All mounting points through hollow sections are crush resistant			
52				Fasteners are of adequate size & provided with locking system			
53				<ul> <li>The tunction of any control [throttle or gear shift etc] is not affected by movement of units in their movembrase.</li> </ul>			
5/			 	All service connections allow for unit movement and are supported to			
04				prevent chaffing.			
55	, 			<ul> <li>Moving parts, particularly rotating parts &amp; chains are shielded to eliminate</li> </ul>			
1				risk of contact with vehicle occupants while vehicle is in use, including			
				shielding against component failure.		<u> </u>	
56				Relative movements between separate engine, transmission and final			
				arive units must respect the type of drive medium used so that correct alignments exist and correct chain tension, where used is maintained			
57				Finding start function is restricted to park and neutral for automatic trans			
58			l	<ul> <li>Driveshaft type &amp; construction must be adequate for torque of unit relative</li> </ul>			
				to the mass of vehicle and suspension movement. Observe:			
1				1. Spline plunge engagement over full movement range			
				2. Operating angles are within design range; i.e. minimum 3% to makers			
				IIMIT MAXIMUM.			
59				The front wheel brake must be able to operate independently of the root		<u> </u>	
55			Brakes	wheel system. [pre 1977 manufacture units do not require front brake]			
60				Each rear wheel brake is operated simultaneously within an automatically			
1				balanced system			

#	vehicle	method	feature	required status	stds ref	V	X
61				• Front and rear wheel brake operation may be linked only where the front		-	
				brake contains a split system capable of fully independent operation.			
62				<ul> <li>All actuating components, including flexible lines within the hydraulic system are brand manufactured and certified for automotive use</li> </ul>			
63				<ul> <li>Fabricated parts having welds where failure would result in brake loss have NDT certificates</li> </ul>			
64	Wheels free	Visually		• All rigid hydraulic lines are to be automotive quality bundy tubing, double			
	with vehicle	assess, refer	Brakes [cont]	ball flared, supported at 300mm minimum intervals and protected			
65	at eye level	to drawing		against abrasion, stone damage and service jacking.			
65		provided.		<ul> <li>Disc brake callipers &amp; rotors must be matched as to type; floating or fixed.</li> </ul>			
66				<ul> <li>Reactive torque inputs will not inhibit suspension movement when brakes are applied. [assess before road test]</li> </ul>			
67				<ul> <li>Actuating levers are adequately mounted, accessible, operable without excessive foot or hand movement and return positively against a stop.</li> </ul>			
68				Hydraulic reservoirs will retain fluid reserves when pads are worn and			
				will not bleed air into the system when mounted on moving parts; i.e. the full range of handlebar movement			
69				Push rods:			
				1. Contain no offset, are of adequate cross-section relative to length &			
				material			
				d0 not contact non-related parts.     End fittings are keyed, not solely butt welded			
				<ol> <li>Any guides must not deflect or inhibit rod movement within range of</li> </ol>			
				travel.			
70				Adjustable components incorporate a positive locking system and a			
71				visual indicator of thread engagement.			
72				Vital fasteners are provided with locking systems			
12				<ul> <li>Vital parts are not electroplated except where original equipment of they are certified as heat treated</li> </ul>			
73				Where vacuum servo's are fitted:     They are rigidly mounted			
				I ney are rigidly mounted     Lines are of an automotive approved type, securely mounted			
				<ol> <li>A vacuum check valve is operational</li> </ol>			
74				<ul> <li>Where parking brakes are fitted they are solely mechanically linked to the shoes or pads</li> </ul>			
75			Wheels and	• All wheels have double safety beads and are fitted with tyres nominated			
			Tyres	by the tyre manufacturer for that rim size, speed potential & loading.			
76				Wheel bearings must be protected against dirt and water ingress			
70				Alloy wheels are not repaired or modified			
10				<ul> <li>Steel wheels that are modified have assurance of weld quality and concentricity available.</li> </ul>			
79				<ul> <li>Correct types of wheel nuts are all present and have full thread engagement, with wheel seats in good condition.</li> </ul>			
80				<ul> <li>Wheel offsets do not overload bearings and any wheel spacers maintain full machined contact area and are either affixed to the hub or wheel</li> </ul>			
81			Electrical	<ul> <li>All wiring, connections and fittings are to automotive standard, adequate for the current draw of the particular application.</li> </ul>			
82	<u> </u>	<u>}</u>		<ul> <li>All multiple wiring runs are tape wrapped into a harness, secured tidily to</li> </ul>			
				prevent chaffing and fouling of adjacent, particularly moving components.			
83				Fuel tanks are securely mounted, insulated against vibration from			
			Fuel System	mechanical components and road shock. Tanks fabricated from steel or			
				alloy must be fully seam welded using a similar base material.			
84				I anks immediately vulnerable to rear end crash should be filled will an 'explosafe' or similar purpose vapour barrier material.			
85				<ul> <li>Rigid fuel lines are made from steel bundy tube, adequately supported against vibration and chaffing.</li> </ul>			
86				<ul> <li>Flexible fuel lines are to be of a material approved for automotive applications.</li> </ul>			
87				Where the fuel system does not utilise a positive displacement pump an			
				anti-drain or anti-siphon valve is incorporated to prevent involuntary			
				spillage.			

#	vehicle	method	feature	required status	stds ref	~	X
88		Visually		The exhaust is fitted with effective muffler[s] with tailpipe[s] that			
		assess, refer	Exhaust	discharge to the rear or to the side immediately in front of a rear			1
		to drawing	system	wheel[s].			
89		and data		the occupants and heat sensitive components are insulated from the			l
		provided.		exhaust system.			
90				<ul> <li>the system mountings provide support for the complete system.</li> </ul>			
91	Vehicle on			Lights are fitted as follows:			1
	road wheels		Lighting	Headlamp[s]			l
				Turn Signal Lamps [DI's] front and rear [with standards markings]			l
				<ul> <li>Tail lamp[s] fitted to indicate vehicle width from rear</li> </ul>			l
				<ul> <li>Stop lamp[s] recommended integral with tail-lamps</li> </ul>			ł
				Rear number plate lamp			l
				• Front tog lamp[s] which operate as an alternative to headlamps [option].			l
				Rear reflectors fitted [with standards markings]			L
92			Lignting [cont]	A torward tacing clearance lamp, preferably amber, is fitted to each side			
00				to indicate vehicle width from the front.			
93	Road Lest	pnysical	tull load	<ul> <li>with vehicle fully laden at rest there is residual suspension movement</li> </ul>			
04		assessment		remaining Objects a based and a state of the single state of the s			
94			rido	Snock absorbers control ride and maintain wheel adhesion     These are faw short imposed to the ensure more during			l
			Tide	Inere are rew sharp impacts transmitted to the sprung mass during     hroking or on uppyon surfaces.			l
				There is no reason to believe that the limits of suspension travel will be			l
				<ul> <li>There is no reason to believe that the limits of suspension travel will be consistently reached during full load operation.</li> </ul>			l
95				When vehicle is driven up to open road speed limits on test course which			<u> </u>
50			handling	includes corners with uneven surfaces			l
				<ul> <li>progressive and positive steering feel, without excessive effort for</li> </ul>			l
				smaller persons, throughout all turning manoeuvres			l
				<ul> <li>progressive and positive steering feel when turning in.</li> </ul>			l
				no excessive understeer or oversteer			l
				directionally stable and self correcting from minor inputs with no hands			l
				off camber climb			l
				<ul> <li>directionally stable when road cambers change</li> </ul>			l
				<ul> <li>no reason to suspect adverse change to handling characteristics with</li> </ul>			l
				fully laden vehicle			
96			hundeline a	<ul> <li>front brake is progressively controllable through to lock-up and back,</li> </ul>			
07			braking	without excessive dive or climb attitude in front			
97				<ul> <li>toot brake is progressively controllable through to lock-up and back, without excessive cauat or perch.</li> </ul>			1
08			ļ	without excessive squat or perch.			
90				unectional stability is maintained during front only braking			
Δ1		ļ	<u> </u>	directional stability is maintained during fool only blaking			
A1 A2		norformanas		unectional stability is maintained during braking on uneven suffaces.			
HZ		verified		Ine vehicle is capable of periorning five successive stops from     100km/br to zero within a distance of 61 motroe, all within a total			
		VEILIEU		elapsed time of three[3] minutes			
A3	/	ļ	<u> </u>	the handbrake where fitted is canable of holding the vehicle on a slope			<u> </u>
, .0				with a minimum gradient of 1 in 5			
A4		assessment	general	where fitted with a wind deflector, the driver has clear vision of the road		1	
			3	ahead over the top of the wind deflector.			
A5				where fitted with a windscreen [safety class] the windscreen wiper		1	
				clears the windscreen to provide full driving vision			

Certifier ID: