

## Test Report

No.: GZHG1005003258BC

Date: Jun 22, 2010

Page 1 of 14

NIRVE SPORTS LTD  
15401 ASSEMBLY LANE HUNTINGTON BEACH CA 92649 U.S.A.

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description : BICYCLE  
Style/ Item No. : NIRVE MEN'S CRUISER 1 SPEED-B SERIES FRAME  
Country of Destination : U.S.A.  
Test Performed : Selected test(s) as requested by applicant  
Sample Receiving Date : May 27, 2010  
Further Information Date : Jun 21, 2010  
Test Performing Date : May 27, 2010~Jun 22, 2010  
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of  
SGS-CSTC Ltd.



William Cao  
Supervisor

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**Sample description:**

Type of received bicycle: A bicycle other than sidewalk bicycle

Maximum saddle height: 1085 mm

Wheels: 26" wheels

Speed: Single speed

Brakes: Caliper brake on front, back-pedal brake

Reflectors: White reflector on front, red reflector on rear, white wheel reflectors, yellow pedal reflectors

**Test Conducted:**

**16 CFR Part 1512:2008-Requirements for bicycles (Excluding 1512.16(g) reflector tests)**

**1. Scope:**

The part sets forth the requirements for a bicycle as defined in § 1512.2(a) (except a bicycle that is a "track bicycle" or a "one-of-a-kind bicycle" as defined in § 1512.2 (d) and (e)) which is not a banned article under § 1500.18(a) (12) of this chapter.

**2. Number of Tested Sample:** 2 sets of fully-assembled bicycle

**3. Test Result:**

Clause	Test Item	Test Requirement / Test Method	Test Result
1512.3	Requirement in general	Any bicycle subject to the regulations in this part shall meet the requirements of this part in the condition to which it is offered for sale to consumers; any bicycle offered for sale to consumers in disassembled or partially assembled condition shall meet these requirements after assembly according to the manufacturer's instructions. For the purpose of compliance with this part, where the metric and English units are not equal due to the conversion process the less stringent requirement will prevail.	Pass
1512.4	Mechanical requirements		
(a)	Assembly	Bicycles shall be manufactured such that mechanical skills required of the consumer for assembly shall not exceed those possessed by an adult of normal intelligence and ability.	Pass
(b)	Sharp edges	There shall be no unfinished sheared metal edges or other sharp parts on bicycles that are, or may be, exposed to hands or legs; sheared metal edges that are not rolled shall be finished so as to remove any feathering of edges, or any burrs or spurs caused during the shearing process.	Pass
(c)	Integrity	There shall be no visible fracture of the frame or of any steering, wheel, pedal, crank, of brake system component resulting from testing in accordance with: the handbrake loading and performance test, §1512.18(d); the foot brake force and performance test, §1512.18 (e); and the load test, §1512.18 (p) (or the sidewalk bicycle proof test, §1512.18 (q).	Pass

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Clause	Test Item	Test Requirement / Test Method	Test Result
(d)	Attachment hardware	All screws, bolts, or nuts used to attach or secure components shall not fracture, loosen, or otherwise fail their intended function during the tests required in this part. All threaded hardware shall be of sufficient quality to allow adjustments and maintenance.	Pass
(e)–(f)	[ Reserved ]		
(g)	Excluded area	There shall be no protrusions located within the area bounded by as specified by the standard. The top tube on a female bicycle model shall be the seat mast and the down tube or tubes that are nearest the rider in the normal riding position. Control cables no greater than 6.4 mm (1.4 in) in diameter and cable clamps made from material not thicker than 4.8 mm (3.16 in) may be attached to the top tube. Clamps or misalignment of brake components.	Pass
(h)	[ Reserved ]		
(i)	Control cable ends	Ends of all control cables shall be provided with protective caps or otherwise treated to prevent unraveling. Protective caps shall be tested in accordance with the protective cap and end-mounted devices test, § 1512.18(c), and shall withstand a pull of 8.9 N (2.0 lbf).	Pass
(j)	Control cable abrasion	Control cables shall not abrade over fixed parts and shall enter and exit cable sheaths in a direction in line with the sheath entrance and exit so as to prevent abrading.	Pass
1512.5	Requirements for braking system		
(a)	Braking system	Bicycles shall be equipped with front and rear wheel brakes or rear wheel brakes only.	Pass
(b)	Handbrakes	Handbrakes shall be tested at least ten times by applying a force sufficient to cause the handlebar to contact the handlebar, or a maximum of 445 N (100 lbf), in accordance with the loading test, § 1512.18(d)(2), and shall be rocked back and forth with the weight of a 68.1 kg (150 lb) rider on the seat with the same handbrake force applied in accordance with the rocking test, § 1512.18(d)(2)(iii); there shall be no visible fractures, failures, movement of clamps, or misalignment of brake components.	Pass

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Clause	Test Item	Test Requirement / Test Method	Test Result
(b) (1)	Stopping distance	A bicycle equipped with only handbrakes shall be tested for stopping distance by a rider of at least 68.1 kg (150 lb) weight in accordance with the performance test, § 1512.18(d)(2) (v) and (vi), and shall have a stopping distance of no greater than 4.57 m (15 ft) from the actual test speed as determined by the equivalent ground speed specified in § 1512.18(d)(2)(vi).	NA
(b) (2)	Hand lever access	Hand lever mechanisms shall be located on the handlebars in a position that is readily accessible to the rider when in a normal riding position.	Pass
(b) (3)	Grip dimension	The grip dimension (maximum outside dimension between the brake hand lever and the handlebars in the plane containing the centerlines of the handgrip and the hand brake lever) shall not exceed 89 mm (31.2 in) at any point between the pivot point of the lever and lever midpoint; the grip dimension for sidewalk bicycles shall not exceed 76 mm (3 in). The grip dimension may increase toward the open end of the lever but shall not increase by more than 12.7 mm (1.2 in) except for the last 12.7 mm (1.2 in) of the lever.	Pass
(b) (4)	Attachment	Brake assemblies shall be securely attached to the frame by means of fasteners with locking devices such as a lock washer, locknut, or equivalent and shall not loosen during the rocking test, § 1512.18(d)- (2)(iii). The cable anchor bolt shall not cut any of the cable strands.	Pass
(b) (5)	Operating force	A force of less than 44.5 N (10 lbf) shall cause the brake pads to contact the braking surface of the wheel when applied to the handlever at a point 25 mm (1.0 in) from the open end of the handlever.	Pass
(b) (6)	Pad and pad holders	Caliper brake pad shall be replaceable and adjustable to engage the braking surface without contacting the tire or spokes and the pad holders shall be securely attached to the caliper assembly. The brake pad material shall be retained in its holder without movement when the bicycle is loaded with a rider of at least 68.1 kg (150 lb) weight and is rocked forward and backward as specified in the rocking test, § 1512.18(d)(2)(iii).	Pass

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(b) (8)	Hand lever location	The rear brake shall be actuated by a control located on the right handlebar and the front brake shall be actuated by a control located on the left handlebar. The left- hand/right-hand locations may be reversed in accordance with an individual customer order. If a single hand lever is used to actuate both front and rear brakes, it shall meet all applicable requirements for hand levers and shall be located on either the right or left handlebar in accordance with the customer's preference.	Pass
(b) (9)	Hand lever extensions	Bicycles equipped with hand lever extensions shall be tested with the extension levers in place and the hand lever extensions shall also be considered to be hand levers.	NA
(c)	Footbrakes	All footbrakes shall be tested in accordance with the force test, 1512.18 (e) (2), and the measured braking force shall not be less than 178 N (40 lbf) for an applied pedal force of 310 N (70 lbf)	Pass
(c) (1)	Stopping distance	Bicycles equipped with footbrakes (except sidewalk bicycles) shall be tested in accordance with the performance test, § 1512.18(e)(3), by a rider of at least 68.1 kg (150 lb) weight and shall have a stopping distance of no greater than 4.57 m (15 ft) from an actual test speed of at least 16 km/h (10 mph). If the bicycle has a footbrake only and the equivalent groundspeed of the bicycle is in excess of 24 km/h (15 mph) (in its highest gear ratio at a pedal crank rate of 60 revolutions per minute), the stopping distance shall be 4.57 m (15 ft) from an actual test speed of 24 km/h (15 mph) or greater.	Pass
(c) (2)	Operating force	Footbrakes shall be actuated by a force applied to the pedal in a direction opposite to that of the drive force, except where brakes are separate from the drive pedals and the applied force is in the same direction as the drive force.	Pass
(c) (3)	Crank differential	The differential between the drive and brake positions of the crank shall be not more than 60 ° with the crank held against each position under a torque of no less than 13.6 N.m (10ft-lb).	Pass
(c) (4)	independent operation	The brake mechanism shall function independently of any drive-gear positions or adjustments.	Pass

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Clause	Test Item	Test Requirement / Test Method	Test Result
(d)	Footbrakes and handbrakes in combination	Bicycles equipped with footbrakes and handbrakes shall meet all the requirements for footbrakes in § 1512.5(c), including the tests specified. In addition, if the equivalent ground speed of the bicycle is 24 km/h (15 mph) or greater, the actual test speed specified in § 1512.18(e)(3) shall be increased to 24 km/h (15 mph) and both braking systems may be actuated to achieve the required stopping distance of 4.57 m (15 ft).	Pass
(e)	Sidewalk bicycles		NA
1512.6	Requirements for steering system		
(a)	Handlebar stem insertion mark	The handlebar stem shall contain a permanent ring or mark which clearly indicates the minimum insertion depth of the handlebar stem into the fork assembly. The insertion mark shall not affect the structural integrity of the stem and shall not be less than 2.5 times the stem diameter from the lowest point of the stem. The stem strength shall be maintained for at least a length of one shaft diameter below the mark.	Pass
(b)	Handlebar stem strength	The handlebar stem shall be tested for strength in accordance with the handlebar stem test, § 1512.18(g), and shall withstand a force of 2000 N (450 lbf) for bicycles and 1000 N (225 lbf) for sidewalk bicycles. § 1512.16(e).	Pass
(c)	Handlebar	Handlebars shall allow comfortable and safe control of the bicycle. Handlebar ends shall be symmetrically located with respect to the longitudinal axis of the bicycle and no more than 406 mm (16 in) above the seat surface when the seat is in its lowest position and the handlebar ends are in their highest position.	Pass
(d)	Handlebar ends	The ends of the handlebars shall be capped or otherwise covered. Handgrips, end plugs, control shifters, or other end-mounted devices shall be secure against a removal force of no less than 66.8 N (15 lbf) in accordance with the protective cap and end-mounted devices test, §1512.18(c).	Pass

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Clause	Test Item	Test Requirement / Test Method	Test Result
(e)	Handlebar and clamps	The handlebar and clamps shall be tested in accordance with the handlebar test, § 1512.18(h). Directions for assembly of the bicycle required in the instruction manual by § 1512.19(a)(2) shall include an explicit warning about the danger of damaging the stem-to-fork assembly and the risk of injury to the rider that can result from overtightening the stem bolt or other clamping device. The directions for assembly shall also contain a simple, clear, and precise statement of the procedure to be followed to avoid damaging the stem-to- fork assembly when tightening the stem bolt or other clamping device.	Pass
1512.7	Requirements for pedals		
(a)	Construction	Pedals shall have right-hand/left-hand symmetry. The tread surface shall be present on both top and bottom surfaces of the pedal except that if the pedal has a definite preferred position, the tread surface need only be on the surface presented to the rider's foot.	Pass
(b)	Toe clips	Pedals intended to be used only with toe clips shall have toe clips securely attached to them and need not have tread surfaces. Pedals designed for optional use of toe clips shall have tread surfaces.	NA
(c)	Pedal reflectors	Pedals for bicycles other than sidewalk bicycles shall have reflectors in accordance with § 1512.16(e). Pedals for sidewalk bicycles are not required to have reflectors.	Pass
1512.8	Requirements for drive chain	The drive chain shall operate over the sprockets without catching or binding. The tensile strength of the drive chain shall be no less than 8010 N or 6230 N for sidewalk bicycles.	Pass

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1512.9	Requirements for protective guards		
(a)	Chain guard	Bicycles having a single front sprocket and a single rear sprocket shall have a chain guard that shall cover the top strand of the chain and at least 90° of the perimeter where the drive chain contacts the drive sprocket. The chain guard shall extend rearward to a point at least 8 cm (3.2 in.) forward of the centerline of the rear axle. The minimum width of the top area of the chain guard shall be twice the width of the chain in that portion forward of the rear wheel rim. The rear part of the top area may be tapered. The minimum width at the rear of the guard shall be one-half the chain width. Such chain guard shall prevent a rod of 9.4 mm (3.8 in.) diameter and 76 mm (3.0 in.) length from entrapment between the upper junction of the chain and the sprocket when introduced from the chain side of the bicycle in any direction within 45° from a line normal to the sprocket.	Pass
(b)	Derailleur guard	Derailleurs shall be guarded to prevent the drive chain from interfering with or stopping the rotation of the wheel through improper adjustments or damage.	NA
1512.10	Requirements for tires	The manufacturer's recommended inflation pressure shall be molded into or onto the sidewall of the tire in lettering no less than 3.2 mm (1.8 in.) in height. The statement of recommended inflation pressure shall be in the English language utilizing Arabic numerals. After inflation to 110 percent of the recommended inflation pressure, the tire shall remain intact on the rim, including while being tested under a load of 2,000 N (450 lbf) in accordance with the rim test, § 1512.18(j). Tubular sew-up tires, nonpneumatic tires, and nonmolded wired-on tires are exempt from this section.	Pass
1512.11	Requirements for wheels		
(a)	Spokes	There shall be no missing spokes.	Pass
(b)	Alignment	The wheel assembly shall be aligned such that no less than 1.6 mm (1/16 in.) clearance exists between the tire and fork or any frame member when the wheel is rotated to any position.	Pass
(c)	Rims	Rims shall remain the spokes and tire when side-loaded with 2000 N (450 lbf) and tested in accordance with the rim test, § 1512.18(j). Sidewalk bicycles need not meet this requirement.	Pass

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1512.12	Requirements for wheel hubs	All bicycle (other than sidewalk bicycles shall meet the following requirement)	
(a)	Locking devices	Wheels shall be secured to the bicycle frame with a positive lock device. Locking devices on threaded axles shall be tightened to the manufacturer's specifications.	Pass
		(1) Rear wheels. There shall be no relative motion between the axle and the frame when a force of 1,780 N (400 lbf) is applied symmetrically to the axle for a period of 30 seconds in the direction of wheel removal.	Pass
		(2) Front wheels. Locking devices, except quick-release devices, shall withstand application of a torque in the direction of removal of 17 N-m (12.5 ft-lb).	Pass
(b)	Quick-released devices	Lever-operated quick-release devices shall be adjustable to allow setting the lever position for tightness. Quick-release levers shall be clearly visible to the rider and shall indicate whether the levers are in a locked or unlocked position. Quick-release clamp action shall emboss the frame or fork when locked.	NA
(c)	Front hubs	Front hubs not equipped with lever-operated quick-release devices shall have a positive retention feature that shall be tested in accordance with the front hub retention test, § 1512.18(j)(3), to assure that when the locking devices are released the wheel will not separate from the fork.	Pass
1512.13	Requirements for front fork	The front fork shall be tested for strength by application of at least 39.5 J (350 in-lb) of energy in accordance with the fork test, § 1512.18(k)(1), without visible evidence of fracture. Sidewalk bicycles need not meet this requirement.	Pass
1512.14	Requirements for fork and frame assembly	The fork and frame assembly shall be tested for strength by application of a load of 890 N (200 lbf) or at least 39.5 J (350 in-lb) of energy, whichever results in the greater force, in accordance with the frame test, § 1512.18(k) (2), without visible evidence of fracture or frame deformation that significantly limits the steering angle over which the wheel can be turned. Sidewalk bicycles are exempt from this section.	Pass

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Clause	Test Item	Test Requirement / Test Method	Test Result
1512.15	Requirements for seat		
(a)	Seat limitation	No part of the seat, seat supports, or accessories attached to the seat shall be more than 125 mm (5.0 in.) above the top of the seat surface at the point where the seat surface is intersected by the seat post axis.	Pass
(b)	Seat post	The seat post shall contain a permanent mark or ring that clearly indicates the minimum insertion depth (maximum seat-height adjustment); the mark shall not affect the structural integrity of the seat post. This mark shall be located no less than two seat-post diameters from the lowest point on the post shaft, and the post strength shall be maintained for at least a length of one shaft diameter below the mark.	Pass
(c)	Adjustment clamps	The seat adjustment clamps shall be capable of securing the seat in any position to which it can be adjusted and preventing movement of the seat in any direction under normal conditions of use. Following the road test, § 1512.18(p) (or the sidewalk bicycle proof test, § 1512.18(q), as applicable), the seat clamps shall be tested in accordance with the seat adjustment clamps and load test, § 1512.18(l).	Pass
1512.16	Requirements for reflectors	Bicycles shall be equipped with reflective devices to permit recognition and identification under illumination from motor vehicle headlamps. The use of reflector combinations off the center plane of the bicycle (defined in § 1512.18(m) (2)) is acceptable if each reflector meets the requirements of this section and of § 1512.18 (m) and (n) and the combination of reflectors has a clear field of view of $\pm 10^\circ$ vertically and $\pm 50^\circ$ horizontally. Sidewalk bicycles are not required to have reflectors.	Pass
(a)	Front, rear, and pedal reflector	There shall be an essentially colorless front facing reflector, essentially colorless or amber pedal reflectors, and a red rear facing reflector.	Pass
(b)	Side reflector	There shall be retroreflective tire sidewalls or, alternatively, reflectors mounted on the spokes of each wheel, or, for non-caliper rim brake bicycles, retroreflective wheel rims. The center of spoke-mounted reflectors shall be within 76 mm (3.0 in.) of the inside of the rim. Side reflective devices shall be visible on each side of the wheel.	Pass

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Clause	Test Item	Test Requirement / Test Method	Test Result
(c)	Front reflector	The reflector or mount shall not contact the ground plane when the bicycle is resting on that plane in any orientation. The optical axis of the reflector shall be directed forward within 5° of the horizontal- vertical alignment of the bicycle when the wheels are tracking in a straight line, as defined in § 1512.18(m)(2). The reflectors and/or mounts shall incorporate a distinct, preferred assembly method that shall insure that the reflector meets the optical requirements of this paragraph (c) when the reflector is attached to the bicycle. The front reflector shall be tested in accordance with the reflector mount and alignment test, § 1512.18(m).	Pass
(d)	Rear reflector	The reflector or mount shall not contact the ground plane when the bicycle is resting on that plane in any orientation. The reflector shall be mounted such that it is to the rear of the seat mast with the top of the reflector at least 76 mm (3.0 in) below the point on the seat surface that is intersected by the line of the seat post. The optical axis of the reflector shall be directed rearward within 5° of the horizontal-vertical alignment of the bicycle when the wheels are traveling in a straight line, as defined in § 1512.18(m)(2). The reflectors and/or mounts shall incorporate a distinct, preferred assembly method that shall insure that the reflector meets the optical requirements of this paragraph (d) when the reflector is attached to the bicycle. The rear reflector shall be tested in accordance with the reflector mount and alignment test, § 1512.18(m).	Pass
(e)	Pedal reflector	Each pedal shall have reflectors located on the front and rear surfaces of the pedal. The reflector elements may be either integral with the construction of the pedal or mechanically attached, but shall be sufficiently recessed from the edge of the pedal, or of the reflector housing, to prevent contact of the reflector element with a flat surface placed in contact with the edge of the pedal.	Pass

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Clause	Test Item	Test Requirement / Test Method	Test Result
(f)	Side reflector	Reflectors affixed to the wheel spokes shall be mounted either flat on the spokes or within the spoke cage such that the angle between the optical axis and the normal to the plane of the wheel shall not exceed the angle of the spokes with the plane of the wheel. The reflectors shall not interfere with any wheel adjustments. The side-mounted reflector devices shall be essentially colorless or amber on the front wheel and essentially colorless or red on the rear wheel.	Pass
(g)	Reflector tests	The pedal, front-mount, rear-mount, and side-mount reflectors shall be tested in accordance with the reflector test, § 1512.18(n), to assure the reflectance values over the angles given in tables of the standard.	NT
(h)	Retroreflective tire sidewalls	When retroreflective tire sidewalls are used in lieu of spoke-mounted reflectors, the reflecting material shall meet the requirements specified in the standard.	NA
(i)	Retroreflective rims	When retroreflective rims are used in lieu of spoke-mounted reflectors or retroreflective tire sidewalls, the reflecting material shall meet the requirements specified in the standard.	NA
1512.17	Other requirements		
(a)	Road test	Bicycles, other than sidewalk bicycles, shall be ridden at least 6.4 km (4.0 mi.) by a rider weighing at least 68.1kg (150 lb.) and travel five times over a 30.5 m (100 ft.) cleared course in accordance with the road test, § 1512.18(p), and shall exhibit stable handling, turning, and steering characteristics without difficulty of operation. There shall be no system or component failure of the structure, brakes, or tires, and there shall be no loosening or misalignment of the seat, handlebars, controls, or reflectors during or resulting from this test.	Pass
(b)	Sidewalk bicycle proof test	Sidewalk bicycles shall be dropped a distance of at least 300 mm (1.0 ft.) three times onto a paved surface with weights attached in accordance with the sidewalk bicycle proof test, § 1512.18(q). There shall be no fracture of wheels, frame, seat, handlebars, or fork during or resulting from this test.	NA
(c)	Ground clearance	With the pedal horizontal and the pedal crank in its lowest position and any training wheels removed, it shall be possible to tilt the bicycle at least 25° from the vertical without the pedal or any other part (other than tires) contacting the ground plane.	Pass

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Clause	Test Item	Test Requirement / Test Method	Test Result
(d)	Toe clearance	Bicycles not equipped with positive foot-retaining devices (such as toe clips) shall have at least 89 mm (31.2 in) clearance between the pedal and the front tire or fender (when turned to any position). The clearance shall be measured forward and parallel to the longitudinal axis of the bicycle from the center of either pedal to the arc swept by the tire or fender, whichever results in the least clearance.	Pass
1512.19	Instructions and labeling	A bicycle shall have an instruction manual attached to its frame or included with the packaged unit.	Pass
(a)	Instruction manual	The instruction manual shall include the specified the information as specified in the standard.	Pass
(b)	Information on shipping carton	A bicycle less than fully assembled and fully adjusted shall have clearly displayed on any promotional display material and on the outside surface of the shipping carton the following: (1) A list of tools necessary to properly accomplish assembly and adjustment. (2) A drawing illustrating the minimum leg-length dimension of a rider and a method of measurement of this dimension.	Pass
(c)	Requirement of the drawing of minimum leg-length dimension	The minimum leg-length dimension shall be readily understandable and shall be based on allowing no less than one inch of clearance between (1) the top tube of the bicycle and the ground plane and (2) the crotch measurement of the rider. A girl's style frame shall be specified in the same way using a corresponding boys' model as a basis.	Pass

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Clause	Test Item	Test Requirement / Test Method	Test Result
(e)	Information on bicycle frame	Every bicycle subject to the requirements of this part 1512 shall bear a marking or label that is securely affixed on or to the frame of the bicycle in such a manner that the marking or label cannot be removed without being defaced or destroyed. The marking or label shall identify the name of the manufacturer or private labeler and shall also bear some form of marking from which the manufacturer can identify the month and year of manufacture or from which the private labeler can identify the manufacturer and the month and year of manufacture. For purposes of this paragraph, the term manufacture means the completion by the manufacturer of a bicycle of those construction or assembly operations that are performed by the manufacturer before the bicycle is shipped from the manufacturer's place of production for sale to distributors, retailers, or consumers.	Pass

Remark:

1. NA – Not applicable, NT – Not tested as per client's requirement.

**PHOTO APPENDIX**



\*\*\* End of Report \*\*\*

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