



TEST REPORT

F 900978-2

2009-02-05

**INSPECTION IN ACCORDANCE WITH EN 14764:2005
CITY AND TREKKING BICYCLES- SAFETY REQUIREMENTS AND TEST
METHODS**

**SKEPPSHULT
ARC/NOVA
ARC/NOVA BAS
ARC/NOVA COMFORT
ARC/NOVA AUTOMAT**



S M P S V E N S K M A S K I N P R O V N I N G A B

SMP Uppsala: Fyrisborgsgatan 3, 754 50 Uppsala Tel: 010-516 64 00 Fax: 018-12 72 44

SMP Malmö: Box 56, 230 53 Alnarp Tel: 010-516 64 00 Fax: 040-46 01 13

SMP Umeå: Box 4053, 904 03 Umeå Tel: 010-516 64 00 Fax: 090-13 65 62

E-post: info@smp.sp.se Internet: www.smp.nu



TEST REPORT

Issued by an Accredited Testing Laboratory

Date
2009-02-05

Our reference
F 900978-2 A



Page 1 of 1

INSPECTION IN ACCORDANCE WITH EN 14764:2005 CITY AND TREKKING BICYCLES- SAFETY REQUIREMENTS AND TEST METHODS

Client

Skeppshultcykeln AB, Storgatan 78, 333 93 Skeppshult, Sweden

Identification

Bicycle: *Skeppshult ARC/Nova*

Principle of selection: *Supplied by the client*

Documentation supplied by the client

Test results and certificate according to enclosure I in part B of this report.

Conclusion

On basis of the results of this inspection and the documentation supplied by the client the requirements of *EN 14764:2005 City and trekking bicycles- Safety requirements and test methods* are considered to have been met for this bicycle.

The results apply only to the inspected bicycle.

Date of inspection: *2009-01-15*

SMP Svensk Maskinprovning AB

Div. for testing

Peter Ståhl
Head of Division

Jan-Olof Nilsson
Senior Testing Engineer

Additional information in F 900978-2 B

*Laboratories are accredited by the Swedish Board for Accreditation and Conformity Assessment (SWEDAC) under the terms of Swedish legislation.
The accredited laboratory activities meet the requirements in SS-EN ISO/IEC 17 025 (2005).*

This report may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

SMP Svensk Maskinprovning AB

Uppsala

Fyrisborgsgatan 3 Ph: +46 10 516 64 00
SE-754 50 Uppsala Fax: +46 18 12 72 44

Malmö

Box 56 Ph: +46 10 516 64 00
SE-230 53 Alnarp Fax: +46 40 46 01 13

Umeå

Box 4053 Ph: +46 10 516 64 00
SE-904 03 Umeå Fax: +46 90 13 65 62

Email/internet

info@smp.sp.se
www.smp.nu

VAT/reg. office

SE5565296836
Uppsala



TEST REPORT

Date
2009-02-05

Our reference
F 900978-2 B

Page 1 of 1

INSPECTION IN ACCORDANCE WITH EN 14764:2005 CITY AND TREKKING BICYCLES- SAFETY REQUIREMENTS AND TEST METHODS

Additional information

Client

Skeppshultcykeln AB, Storgatan 78, 333 93 Skeppshult, Sweden

Identification

Bicycle: *Skeppshult ARC/Nova and ARC/Nova Bas*

Gears: *3, 5 and 7 speed*

Bicycle: *Skeppshult ARC/Nova Comfort and ARC/Nova Automat*

Gears: *8 speed*

Testing laboratory

SMP Svensk Maskinprovning AB, Box 56, SE-230 53 Alnarp

Testing personnel

Jan-Olof Nilsson

Test results and documentation

	Requirements of EN 14764		Fulfils the requirements		Additional documentation required	Not applicable
	Clause	Regarding	Yes	No		
Front brake	4.6.2.2	Brake-lever grip dimensions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.6.3	Static test cable end cap	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	4.6.4	Brake-block and -pad assemblies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	4.6.6	Hand-operated (Strength test)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.6.8	Braking distance (dry/wet)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Linearity (dry/wet)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Ratio between wet and dry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.6.9	Heat resistance test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Rear brake	4.6.2.2	Brake-lever grip dimensions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	4.6.3	Static test cable end cap	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	4.6.4	Brake-block and brake-pad	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	4.6.6	Hand-operated (Strength test)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	4.6.7	Back-pedal (Strength test)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.6.8	Braking distance (dry/wet)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Linearity (dry/wet)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Ratio between wet and dry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.6.9	Heat resistance test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Steering	4.7.2	Handlebar grips and plugs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.7.6.2	Handlebar/stem: Lateral bending	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.7.6.3	Handlebar-stem: Forward	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.7.6.4	Handlebar to stem: Torsional	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.7.6.5	Handlebar-stem to fork: Torsional	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.7.6.6	Bar-end to handlebar: Torsional	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	4.7.7	Handlebar and stem: Fatigue	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frame	4.8.2	Frame and fork: Impact test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.8.3	Fatigue test with pedalling force	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.8.4	Fatigue test with vertical force	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Requirements of EN 14764		Fulfils the requirements		Additional documentation required	Not applicable
	Clause	Regarding	Yes	No		
Front fork	4.9.3.2	Tyre-clearance test (suspension)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	4.9.3.3	Tensile test (suspension)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	4.9.4	Static bending test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.9.5	Reward impact test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.9.6	Bending fatigue test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.9.7.2	Brake-torque test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.9.7.3	Repeated brake-torque test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wheels	4.10.1	Rational accuracy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.10.3	Static strength test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.10.4	Front wheel retention	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Rear wheel retention	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.10.5	Quick-release device	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	4.11.2	Tyres: compliance with ISO 5775-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Rims: compliance with ISO 5775-2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.12	Mudguards	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Crank system	4.13.3	Pedals: Static test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.13.4	Pedal-spindle: Impact test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.13.5	Pedal: Dynamic durability test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.13.6	Drive-system: Static test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.13.7	Crank-assembly: Fatigue test 45°	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Saddle and seat-pillar	4.14.4	Saddle/seat-pillar: Security test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.14.5.2	Saddle: Static test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.14.6	Saddle/seat-pillar: Fatigue test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.14.7	Seat-pillar: Fatigue test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	4.15	Chain: compliance with ISO 9633	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.18	Luggage carriers: compliance with EN 14872	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.21	Warning device: compliance with ISO 7636	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Inspection

Clause	Regarding	Comments
4.2	Sharp edges	Fulfils the requirement
4.3.1	Security of screws	Fulfils the requirement
4.3.2	Minimum failure torque	Fulfils the requirement
4.3.3	Foldable bicycle	Not applicable
4.5	Protrusions	Fulfils the requirement
4.6.1	Braking-systems	Fulfils the requirement
4.6.2.1	Brake-lever position	Fulfils the requirement
4.6.5	Brake adjustments	Fulfils the requirement
4.7.1	Handlebar dimensions	Fulfils the requirement
4.7.3	Handlebar stem-depth mark	Fulfils the requirement
4.7.4	Handlebar stem-extension to fork	Not applicable
4.7.5	Steering stability	Fulfils the requirement
4.8.1	Suspension frame	Not applicable
4.9.2	Front fork – Location front axle	Fulfils the requirement
4.10.2	Wheel assembly - Clearance	Fulfils the requirement
4.11.1	Mark - Tyres inflation pressure	Fulfils the requirement
4.11.2	Tyre – 110% of max pressure	Fulfils the requirement
4.13.1	Pedal tread	Fulfils the requirement
4.13.2	Pedal clearance	Fulfils the requirement
4.14.2	Saddle - Dimensions	Fulfils the requirement
4.14.3	Seat-pillar - Depth mark	Fulfils the requirement
4.15	Drive chain – Without binding	Fulfils the requirement
4.16	Chain guard	Fulfils the requirement
4.17	Spoke protector	Not applicable
4.19	Handling of bicycle	Fulfils the requirement
5	Manufacturers instructions	Fulfils the requirement
6.1	Marking	Fulfils the requirement

SMP Svensk Maskinprovning AB

Div. for testing



Jan-Olof Nilsson
Senior Testing Engineer

Enclosure: Documentation supplied by the client

Date
2009-02-05Our reference
F 900978-2 B**Documentation supplied by the client**

<u>Regarding</u>	<u>Issued by</u>	<u>Reference</u>
<i>Front brake</i>	<i>SMP Svensk Maskinprovning AB</i>	<i>PM 31960-10</i>
<i>Rear brake</i>	<i>SMP Svensk Maskinprovning AB</i>	<i>PM 16095-16 (3 speed) F 800674-1 (5 speed) PM 16095-15 (7 speed) PM 83243 (8 speed)</i>
<i>Steering</i>	<i>SMP Svensk Maskinprovning AB</i>	<i>F 800433-5 (Std / Bas) F 800433-4 (Comf/Aut)</i>
<i>Frame</i>	<i>SMP Svensk Maskinprovning AB</i>	<i>F 800257-1 (Nova) F 800257-2 (ARC)</i>
<i>Front fork</i>	<i>SMP Svensk Maskinprovning AB</i>	<i>PM 93398-2</i>
<i>Wheels</i>	<i>SMP Svensk Maskinprovning AB</i>	<i>F 800583 PM 16095-26</i>
<i>Mudguards</i>	<i>SMP Svensk Maskinprovning AB</i>	<i>Tested 2008-03-27</i>
<i>Rims</i>	<i>Bohle</i>	<i>Dated : 2007-10-11</i>
<i>Pedal</i>	<i>SMP Svensk Maskinprovning AB</i>	<i>F 800520</i>
<i>Drive-system</i>	<i>SMP Svensk Maskinprovning AB</i>	<i>F 800674-1 (5 speed) PM 16095-30 (3/7 speed) PM 86117 (8 speed)</i>
<i>Crank-assembly</i>	<i>EFB Prüftechnik</i>	<i>072240, dated 2007-12-05</i>
<i>Saddle/seat-pillar</i>	<i>SMP Svensk Maskinprovning AB</i>	<i>F 800434-4 (Std/Comf/Aut) F 800434-5 (Bas)</i>
<i>Chain</i>	<i>Wippermann</i>	<i>Dated : 2008-04-14</i>
<i>Rear luggage carrier</i>	<i>SMP Svensk Maskinprovning AB</i>	<i>PM 58828-04 (Bas/Std) F 900023 (Comf/Aut)</i>
<i>Front luggage basket</i>	<i>SMP Svensk Maskinprovning AB</i>	<i>PM 75618 (Nova)</i>
<i>Warning device</i>	<i>Reich</i>	<i>Dated : 2008-05-03</i>