



VAN RAVENSTEIJN
KADAVERVERWAGENS.NL



HANDY CAESAR[®]V

MANUAL





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Introduction

Preface

Kadaverwagens.nl machines are successfully used in various countries, mainly for motorised transport tasks in agriculture and livestock farming, the construction sector, and related industries. Versions with a loading box, lifting mast, platform, wheelbarrow body, carcass-handling unit, etc., are also available. The transport machines form part of the extensive and versatile range of Kadaverwagens.nl equipment and can be used in a wide variety of situations.

Thanks to many years of experience in manufacturing transport machines, tool carriers, and attachments—combined with modern construction methods and thoroughly executed test programmes following high-quality standards—you can fully rely on your Kadaverwagens.nl machines and accessories.

Various directly compatible attachments can be supplied on request: loading box, lifting mast, platform, wheelbarrow body, carcass machine, hand truck, and special configurations. All equipment is manufactured under CE certification.

This manual, including the dated EU Declaration of Conformity for machinery, is written in the original Dutch language. For translated versions, the Dutch version must always be regarded as the original reference.

Na gebruik telkens de machine direct op 110/220V-stroom opladen in een geventileerde droge ruimte anders dan waar amoniakdampen kunnen voorkomen!!!!!!

The supplied manual includes:

- General safety regulations
- Operating instructions
- Attachment
- Technical data
- General maintenance
- Periodic maintenance
- Disposal and environmental information
- Technical documentation
- Schematics and appendix
- CE Declaration of Conformity





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Manual

This manual contains all information required to operate and maintain the machine correctly. The chapter “**General maintenance**” describes all maintenance tasks and function checks that must be performed **exclusively by trained personnel**.

Major repairs—those performed only by qualified personnel trained by the manufacturer or importer—are not included in this manual. The manufacturer reserves the right to make construction changes, which may result in small differences between the illustrations and your specific machine. These differences do not affect machine operation.

Significant repairs, such as after damage or modifications, can seriously impair machine safety. Examples include increasing capacity, changing functions, or using non-original parts. The Machinery Directive states that any party performing such modifications assumes full CE responsibility, and the manufacturer disclaims all liability.





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1.0 General Safety Instructions

1.1 Commissioning the machine

The machine is designed and built according to Machinery Directive 2006/42/EC. The type plate is located at the rear and lists installed power (kW), empty weight, maximum permitted load, serial number, and CE mark.

The CE marking and declaration of conformity are based on the above, plus a risk inventory and evaluation (RIE).

The manual must always be kept with the machine. Operators must study it thoroughly so they understand what is and is not permitted, know all safety regulations, and are aware of maintenance requirements.

If the manual is missing, this must be reported immediately. Wherever a residual risk exists, a warning sticker is placed.

1.2 Correct use of the machine in accordance with safety guidelines

1.2.1 The Handy Caesar meets the generally accepted safety requirements according to Machinery Directive 2006/42/EC, including:
06/95/EC, 04/108/EC, 98/37/EG, 89/392/EEG, 91/368/EEG, 93/44/EEG, 93/68/EEG,
as well as CEI EN 61000-4-5/6-2/6-3, CEI EN 61558-1, CEI 60335-1, EN 1175-1:1998,
NEN 474-1, EN 474-3, EN 474-5, ISO 10567, and other included recommendations and specifications (StVZO).

The machine is CE-marked accordingly.

Despite this, using the machine may still pose risks to the operator or third parties, or may cause damage to the machine, materials, or persons.

For safety reasons, the owner of the Handy Caesar must ensure that each operator is familiar with the operation of the machine according to this manual.

1.2.2 The multifunctional machine may only be used for the tasks described in this manual. Other uses are prohibited unless explicitly approved by the manufacturer.
The manufacturer is not liable for damage caused by improper use (such as operating with insufficient tyre pressure!).





1.2.3 Operate the machine only when it is in perfect technical condition and when all safety regulations are followed, including the wearing of safety footwear.

Keep the operating panel and locks clean; do not allow materials such as straps or tools to lie around on or in the Handy Caesar.

Check the machine regularly for loose bolts, cracks, dents, wear, soft tyres (<3.5 bar), and other damage.

Faults that may endanger safe operation must be repaired immediately.

1.2.4 Additional ballast on the machine is **not permitted**.

1.3 Organisational Measures

1.3.1 The manual must always be kept within reach at the workplace.

1.3.2 In addition to this manual, all generally applicable legal regulations regarding accident prevention (especially the Working Conditions Act / Arboreta), as well as the legal regulations on environmental protection, must be observed.

1.3.3 Personnel working with or on the machine are required to read and understand the manual, particularly the safety instructions.

This also applies to personnel who use the machine only occasionally or who carry out maintenance.

1.3.4 Personnel working with the machine may not wear loose hair, loose clothing, or jewellery (especially rings).

There is a risk that jewellery may become entangled in the machine.

Safety clothing and safety shoes are mandatory for the operator and for anyone working near the machine.

1.3.5 All hazard and safety labels on the machine must be observed, as they relate to residual risks.

1.3.6 All hazard and safety labels must remain clean and legible. For replacement labels, contact the manufacturer.

1.3.7 In case of changes—particularly damage or faults—that prevent safe operation, the machine must be switched off immediately, and the fault must be reported to the responsible person.

1.3.8 It is forbidden to make any modifications to the machine without the manufacturer's permission, if such changes may endanger safety.

This also applies to adjustments of safety devices, switches, or welding on load-bearing parts.

The owner/user naturally has the right to install additional equipment on the machine, but this is an individual decision and requires its own risk assessment (RIE).

1.3.9 Check the electrical system, particularly external power cables, and repair any simple faults immediately.





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1.3.10 Recharge the batteries in time to avoid overloading them.

If operation becomes slower than normal, the machine must be connected to a 110/220–230V socket for a sufficient period so the internal charger can fully charge both batteries.

After each use, the machine must be connected to a 110/220V power supply for charging in a **dry, ventilated room, not** where ammonia fumes may be present.

1.3.11 Ensure there are no knots in the winch cable; knotted cables become severely weakened.





1.4 Personnel Requirements and Staff Selection

1.4.1 The machine may only be operated and maintained by personnel who are designated by the employer.

These persons must:

- Be 18 years or older
- Be physically and mentally fit
- Have received instructions on operation and maintenance and be proven competent
- Be considered reliable enough to perform these tasks safely

.

1.4.2 Only trained or instructed personnel under supervision of a qualified technician may work on the electrical installations of the machine.

They must follow all professional technical regulations.

1.5 Safety Instructions During Specific Operation

1.5.1 Normal use

1.5.1.1 The machine must **not** be used to transport persons.

1.5.1.2 Before driving the machine, check that no one in the surrounding area is at risk.

1.5.1.3 Always operate the machine with **both hands** on the handle bars while standing behind them.

1.5.1.4 Remember that turning the ignition key activates all functions; all controls become powered.

1.5.1.5 Before starting work, always check the operation of the winch, drive system, and emergency stop.

Test the red emergency stop button: when pressed, the machine should drive forward to prevent crushing!

Always test this function!

1.5.1.6 Before using the machine, check that all attachments are properly secured and pose no danger.

1.5.1.7 Before starting, familiarise yourself with the work environment.

Pay attention to raised obstacles, ground load capacity, and ensure no one may become trapped in narrow passages.

Keep the work area clean—remove obstacles, contamination, loose materials, etc.

Electrical cables require special attention with respect to winch distance.

If the machine contacts a live electrical cable, the cable must be made voltage-free before touching the machine.

Warn bystanders not to touch the machine.

1.5.1.9 Avoid anything during operation that may cause danger.





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1.5.1.10 Loading the machine onto a trailer should preferably be done forwards due to rear wheel swing.

1.5.1.11 The operator may begin work only when no one is within the danger zone.

The danger zone is any area where persons may be injured by:

- Unexpected movement
- Poor ground support
- Attachment pieces falling off
- Winch cable entrapment

1.5.1.12 If a fault occurs, the machine must be turned off immediately and repaired.

1.5.1.13 Inspect the machine at least once per work cycle for visible damage, faults, or changes. Report findings immediately and switch off the machine..

1.5.1.14 During transport, the centre of gravity must be as close as possible above the pivot point of the carcass chute, preferably secured with a strap or chain.

The chute should remain as low as possible.

The loading angle when using the carcass machine should be slightly tilted backwards for stable transport.

1.5.1.15 In poor visibility or darkness, always switch on lighting; additional lighting or a guide may be necessary.

1.5.1.16 Pay extra attention when passing through doorways, under overhead pipes, across uneven terrain, or slopes.

Additional assistance or special measures may be required.

1.5.1.17 At designated dumping/removal sites, the machine may only be used if proper facilities are available to prevent rolling off or falling.

1.5.1.18 Avoid operating the machine in ways that compromise its stability.

On slopes or soft ground, use plates or boards for support and always drive slowly.

Maximum permitted slopes:

- **10%** longitudinal (straight uphill/downhill)
- **5%** lateral (sideways, during pivoting steering)

1.5.1.19 After loading onto a trailer, secure the machine with straps.

1.5.1.20 Remove the ignition key after use to prevent unauthorised operation.

1.5.1.21 During maintenance, ensure attachments rest on the ground or are securely supported; disconnect electrical power and remove the key.

1.5.1.22 Park on solid, level ground whenever possible.

1.5.1.23 Never lift more than the rated lifting capacity (see type plate).





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1.5.1.24 Load must be distributed evenly across the width of the loading unit; avoid asymmetric loading.

1.5.1.25 Avoid jerky movements; lift and drive smoothly.

1.5.1.27 After each use, connect the machine to the charger so it is fully charged for the next operation.

1.6 Instructions Regarding Specific Risks – Electrical Energy and Noise

1.6.1 Electrical Energy

1.6.1.1 Use only original fuses according to the electrical diagram (80 A and 120 A).

1.6.1.2 When approaching overhead power lines, take into account all machine movements and dimensions.

1.6.1.3 Only persons with specific knowledge and experience in electrical systems may perform checks, maintenance, or repairs..

1.6.1.4 During inspection, maintenance or repair of the machine or attachments, disconnect the negative terminal of the batteries to make the machine voltage-free.

1.6.1.5 Before spraying the machine with water, cover all sensitive areas, including splash-proof components.

1.6.2 Listening to music during machine operation is strictly forbidden.

1.7 The machine may not be towed unless in freewheel mode (freewheel pin underneath).

Towing without freewheel activated will cause irreparable damage to the electric drive system because the transmission provides braking resistance.

1.7.2 Use only suitable vehicles with sufficient load capacity.

1.7.3 Secure the machine and attachments properly with straps and blocks.

1.7.5 When recommissioning the machine, follow section **1.1** of this manual.





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1.8 Safety Instructions for the Employer or Authorised Personnel

1.8.1 Organisational Measures

1.8.1.1 Replacement parts must meet the manufacturer's technical requirements.

Original parts always meet these requirements.

1.8.1.2 Ensure the location and use of fire extinguishers are known to all personnel.

1.8.2 Personnel Qualifications and Fundamental Obligations

1.8.2.1 Only personnel familiar with the Handy Caesar may perform work with or on the machine.

1.8.2.2 Only authorised personnel may operate, maintain, or repair the machine.

All responsibilities must be clearly defined.

1.8.2.3 When operating in contaminated environments, suitable personal protective equipment must be available to guarantee the health and safety of the operator and other workers.

1.8.2.4 Staff in training or not yet fully instructed may only work under supervision of an experienced worker.





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2.0 Operation

2.1 Starting the Machine

- Turning the ignition key activates the Handy Caesar for driving.
- Setting the winch arrow horizontally prepares the winch for powered operation.
- Setting the winch arrow downward places the winch cable in freewheel for manual use.
- Engaging the freewheel pin enables the drive system.

2.3 Driving / Steering

2.3.1 Driving with the two-wheel drive and swivel wheels

- Both steering handles on the left and right sides of the operating console must be held firmly with both hands to perform all steering manoeuvres.
- Forward driving speed is limited to **5 km/h**.
- Reverse driving speed is limited to **4 km/h**.
- Reverse driving is protected by the emergency stop: when the emergency stop is pressed, the machine automatically moves **forward**, preventing crushing hazards.
- Avoid driving over uneven surfaces as much as possible, as this affects stability.
- Avoid jerking or pulling on the steering handles.
- Avoid driving through puddles to prevent electrical malfunctions.
- The Handy Caesar can turn sharply (pivot steering).
- When driving with loads up to the safe limit of **150 kg**, the pressure on the swivel wheels increases, which improves grip on the ground.
- Overloading the machine causes a risk of tipping and loss of steering control.
- Do **not** use counterweights; overloading is strictly prohibited as it compromises safety in every sense.





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2.4 Controls

2.4.1 Ignition Key

The ignition key activates or deactivates all control functions.

2.4.2 Drive Direction

Turning both orange switches **forward** moves the Handy Caesar **forward**.

Turning both orange switches **backward** moves the Handy Caesar **backward**.

Pressing the emergency stop immediately stops backward movement and forces the machine to move forward to prevent entrapment.





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2.4.3 Action Switch(es)

Moving the action switch **forward** unwinds the winch cable, provided the winch arrow is in the horizontal position.

Moving the action switch **backward** winds the winch cable in.

2.4.6 Using the Winch Cable

Keep your hands away from the winch drum.

Do **not** use the winch to pull or move people.

Do **not** operate the winch continuously for long periods.

Never wrap the winch cable around an object with the cable end attached to the machine.

Do **not** hold the cable with your hand while it is being wound in.

Do **not** use the winch to pull the machine itself.

3.0 Carcass Machine

Pay special attention to **stability**, both when pulling in the carcass and when transporting it through narrow passages.

Tyre pressure must always be **3.5 bar**.

After use: **rinse/clean and disinfect** the machine.





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4.0 Technical Data

4.1 The Machine

(See also illustrations in section 9)

Height: **1514 mm**

- Width: **500 mm**
- Length: **1183 mm**
- Net weight: **125 kg**
- Safe lifting weight: **150 kg**
- Ground clearance: **90 mm**
- Climbing/descending slope: **up to 10%** (longitudinal)
- Side slope: **up to 5%** (lateral)
- Maximum speed forward: **5 km/h**
- Maximum speed reverse: **4 km/h**
- Tyre size: **4.10/3.50-6**
- 1x electric wheel drive / differential
- Drive power: **0.4 kW**

4.2 Electrical System

? Batteries: **2 × 12 V = 24 V, 38 Ah**

? See electrical schematic in section 9





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General Maintenance

5.1 Maintenance Instructions

5.1.1 If damage occurs because maintenance instructions were not followed, warranty claims cannot be made.

5.1.2 When performing any maintenance, the batteries must be electrically isolated. Disconnect the **negative terminals** first.

5.1.3 Never work underneath the machine if it is placed on soft or loose ground.

5.1.4 Do not bypass or disable any safety controls.

Contact your Handy Caesar dealer if safety functions do not operate correctly

5.1.7 Never repair electrical wires while they are under load.

5.1.9 Never place yourself underneath a raised load.

5.1.11 Keep the operating console free of loose materials.

5.1.12 During welding or grinding work on the machine:

Remove the battery and store it in a safe place.

Ensure electrical wiring is not damaged.

5.2 Battery Maintenance and Replacement.

Check the battery voltage every six months and verify that the battery is firmly and properly secured inside the chassis.

If necessary, disconnect the battery terminals (first negative, then positive) and replace the battery.

Reinstall in reverse order.

Dispose of old batteries at an authorised collection point.

Periodic Maintenance

6.1 Daily Checks

Check the operation of the emergency stop button.

Check for damage or loose battery connections.

Inspect tyres for damage or sharp objects.

Tyre pressure: **3.5 bar** — low pressure increases tipping risk!

Check proper operation of control switches.





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Clean machine and remove residues such as blood (disinfection recommended).

After each use:

Charge the machine immediately with 110/220V in a ventilated room, not in areas where ammonia fumes may occur.

Report any damage immediately. Necessary actions will be determined in consultation.

6.2 After the First 40 Operating Hours

- Inspect all fastenings and locking mechanisms.
- Check the machine for rust, damage, and irregularities.
-

6.3 Annual Maintenance (preferably by Van Ravensteijn Machinebouw B.V.)

- Check all items listed in previous sections.
- Inspect drives and motors.
- Replace unreadable safety stickers; **do not paint over them.**
- Inspect the battery box inside and out for rust and damage

7.0 Disposal and Environment

When the Handy Caesar is no longer suitable for use, environmentally harmful components—such as batteries, tyres, motors, etc.—must be removed.

Each material must be disposed of separately through the appropriate recycling facility or authorised disposal company.

8.0 Technical Documentation

Technical documentation such as technical files, detailed drawings, construction calculations, and applicable standards is not supplied as standard, but can be requested from the manufacturer if needed.

Edition history:

- 1st edition: October 2012
 - 2nd edition: January 2017
 - 3rd edition: 24 April 2024
- Revisions:
- a) b) c)



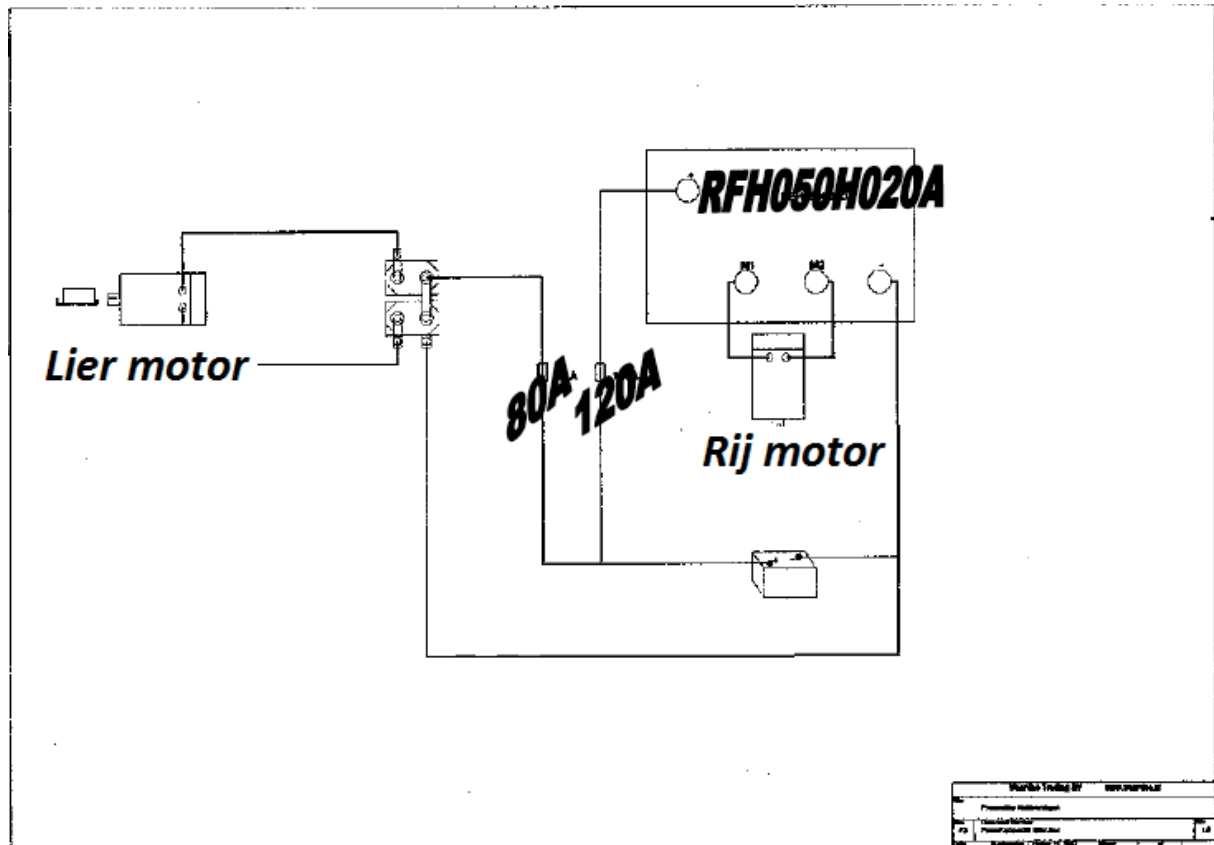


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9.0 Schematics, Markings, and Views

9.1 Electrical Schematic.





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9.2 Markings

Placement: On both sides of the machine.



Placement: On the winch.



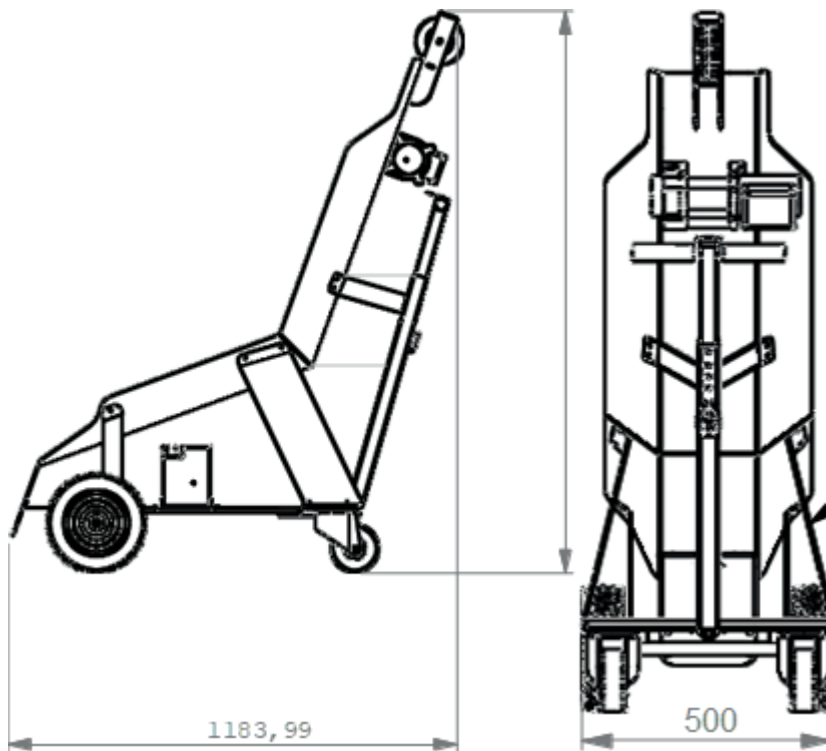
Placement: On both sides of the machine near the tyres.





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9.3 Various Views – Standard Carcass Machine Version





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10 CE Declaration of Conformity

CE Declaration of Conformity

EU Declaration of Conformity for Machinery

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Herewith declares that the **HANDY CAESAR, type 5**, intended for lifting and transport activities in livestock farming and related sectors, complies with the provisions of the Machinery Directive:

Machinery Directive 2006/42/EC, including:

06/95/EC, 04/108/EC, 98/37/EG, 89/392/EEG, 91/368/EEG, 93/44/EEG, 93/68/EEG,

as well as: CEI EN 61000-4-5/6-2/6-3, CEI EN 61558-1, CEI 60335-1, EN 1175-1:1998,

NEN 474-1, EN 474-3, EN 474-5, ISO 10567, and applicable recommendations/specifications (StVZO).

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Issued in **Nistelrode**, **10-10-2012**

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