



## **Document of Warranty** **For LIAG / MAN Diesel Generating Sets**



With this document LIAG wants to ensure in case of a warranty issue you are able to submit your claim as fast and smooth as possible.

**Please make sure to read this documents carefully before commissioning, as to receive support without any problems you need to follow certain instructions, to avoid unnecessary damages !**



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**Mandatory Requirements for a Warranty Claim:**

- The MAN commissioning report and the general data sheet by MAN are to be completed for each engine and sent back to LIAG directly after commissioning is finished.
- For each claim our damage report has to be used, to ensure an easy and fast process.
- Furthermore, a documentary proof of service/maintenance carried out, is to be attached to the damage report.

	LIAG reserve the right to refuse the guarantee request if above mentioned documents are not available.
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**Documents to be sent to LIAG after Commissioning:**

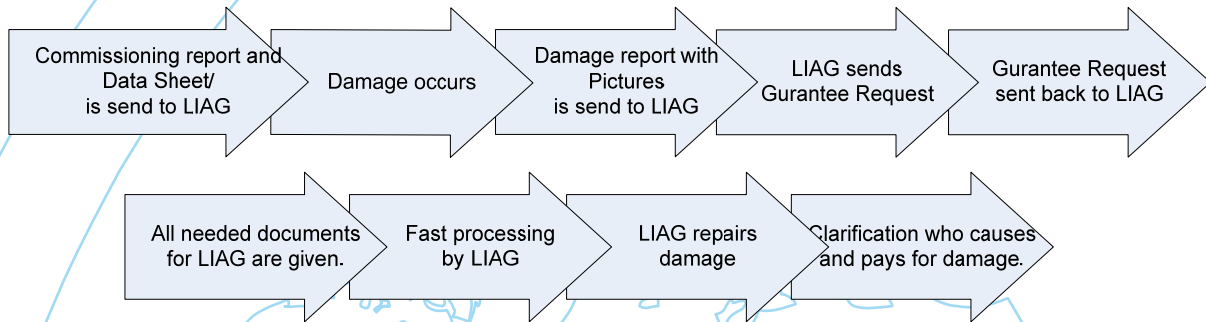
1. Commissioning Report for On-board Units
2. MAN General Data Sheet

**Documents to be filled out / sent to LIAG in case of warranty claim:**

1. Damage Report (fully filled out with detailed description of damage)
2. Checklist for maintenance work from MAN Boardbook
3. **At least 3 Pictures** of the damage. (Close up, from Distance and opposite side)



### Process of warranty claim



### Contact for warranty claims:

- By E-Mail: [service@lindenberg-anlagen.de](mailto:service@lindenberg-anlagen.de)
- By Fax: +49 (0) 2205 / 80 09 – 234
- Postal Auf der Grefenfurth 25-27 – 51503 Rösrath - Germany

### Enclosures

Provisional Acceptance Certificate (PAC)  
General Commissioning Preparation  
Damage Report

# LINDENBERG-ANLAGEN GMBH

Stromerzeugungs- und Pumpenanlagen  
Schaltanlagen



## PROVISIONAL ACCEPTANCE CERTIFICATE (PAC)

Commissioning Start-Up Report of Generating Sets from Lindenberg-Anlagen GmbH

### Information from manufacturer

LIAG-Order No.: ..... Shipyard/Station: .....  
Type of Vessel/Station: ..... Name of Vessel/Power Plant: .....  
Type of Generating Set: ..... Operations hrs.: .....  
Engine type: ..... Serial No. Engine: .....  
Alternator type: ..... Serial No. Alternator: .....  
Date of starting up on board: .....

### Operation fluids (manufacturer/type)

Lubrication Oil: ..... Antifreeze/Anticorrosion: .....

### Commissioning/Start Up

Our expert, ..... has checked the above mentioned equipment.  
The Generating Set is in good working condition and ready for operation.

All necessary tests and adjustments of the protection devices have been performed correctly.

The customer has received the Instruction Manuals as well as the mechanical and electrical documentation.

- The operation staff have been instructed in handling the GENSETS, ACCESSOIRES and SWITCHBOARDS.
- The engineers are advised to follow strictly the instructions for operation and maintenance in particular the section of the service instructions, recommended by the sub supplier.

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Geschäftsführer:  
Dipl.-Ing.(FH) Olaf Berghoff

Handelsregister: HRB 45514  
DE 121 961 663

Postanschrift:  
Lindenberg-Anlagen GmbH  
Postfach 1128  
51492 Rösrath



Lieferanschrift:  
Lindenberg-Anlagen GmbH  
Auf der Grefenfurth 25-27  
51503 Rösrath

autorisierte Service-Werkstätte für  
MAN-Industrie- und Schiffsdieselmotoren

Tel.: 0049 (0) 2205 8009-0  
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email: postmaster@lindenberg-anlagen.de  
Internet: www.lindenberg-anlagen.de

Bankverbindungen:  
Dresdner Bank AG, Köln  
BLZ 370 800 40  
Kto.-Nr.: 986 448 900  
Swift-BCI:  
DRES DE FF 370  
IBAN-Nr.:  
DE 44 3708 0040 0986 44 89 00

05.12.2008  
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Raiffeisenbank Rösrath  
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Kto.-Nr.: 1 507 600 014

Postbank Köln  
BLZ 370 100 50  
Kto.-Nr.: 26 323 506

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**LIAG-Order No.:** ..... **Serial No. Engine:** .....

The requirements regarding the use of approved lube oils, fuels and cooling water additives (water treatment) have been observed.

Therefore, the equipment is accepted by : .....

Date : .....

Spare parts according to contract specification where handed over to : .....

Date : .....

Documentation, (mechanical and electrical) relating to the above order where handed over to : .....

Date : .....

The list of deficiencies in deliveries and performance by LINDENBERG have been stated on the additional page.

The time of guarantee takes effect with the date of acceptance in accordance with the contract. Unless specified otherwise in the contract.

Place: ..... Date: .....

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(Customer: Signature and stamp)

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LINDENBERG-ANLAGEN GMBH



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Stromerzeugungs- und Pumpenanlagen  
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LIAG-Order No.: ..... Serial No. Engine: .....

## List of deficiencies

item	description	responsibility	solved until
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

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MAN-Industrie- und Schiffsdieselmotoren

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Auf der Grefenfurth 25-27  
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email: postmaster@lindenberg-anlagen.de  
Internet: www.lindenberg-anlagen.de

Bankverbindungen:  
Dresdner Bank AG, Köln  
BLZ 370 800 40  
Kto.-Nr.: 986 448 900  
Swift-BCI:  
DRES DE FF 370  
IBAN-Nr.:  
DE 44 3708 0040 0986 44 89 00

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Kto.-Nr.: 26 323 506

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## General Commissioning Preparation

Customer :

Installation Company :

Power plant :

Customer Order No. :

LIAG Order No. :

Subject :

Concerning the commissioning procedure for the above mentioned contract we would like to inform you as follows:

### Commissioning

For the planning of the commissioning we need the information about the date when the commissioning of the plant is scheduled to start (if available a detailed time schedule about the commissioning procedure would be appreciated)

Would you please be so kind and inform us shortly about the exact commissioning date and place.

In order to be able to carry out the commissioning correctly and without any delay, following preconditions have to be fulfilled:

1. The fuel oil supply has to be provided according to the "**Manufacturer Requirements**".
2. Lubricating oil and corrosion inhibitor has to be available considering the "**Manufacturer Requirements**".
3. The installation of the plant has to be completed, including all peripheral systems thermal utilization, cooling system, exhaust gas unit, controller, oil system, ventilation system etc.
4. The equipment for balance of plant which is not in scope of Lindenberg-Anlagen GmbH supply should be functional.
5. All piping systems have to be clean and tight.

# Lindenberg-Anlagen GmbH

Stromerzeugungs- und Pumpenanlagen  
Schaltanlagen



6. The heating system has to be filled and functional. The heat consumption has to be assured according to the power of the plant.
7. The plant has to be wired completely and duly.
8. The feed into the mains for 100% load has to be assured during the complete commissioning period.
9. The plant has to be clean and well illuminated.
10. During the complete commissioning period a responsible person of the customer has to be available at site for communication and coordination with the commissioning engineer.
11. A draughty commissioning without any interruption under real conditions should be possible.
12. Holding times for which Lindenberg-Anlagen GmbH cannot be held responsible for and interruptions as well as travelling times resulting from that will be charged separately.

— Please confirm that above mentioned preconditions are fulfilled and inform us who will be your person in charge (name and phone No.) for the commissioning at site.

Kind Regards

Lindenberg-Anlagen GmbH

# LINDENBERG - ANLAGEN GMBH

Dieselmotorgetriebene Stromerzeugungs- und Pumpenanlagen  
Schaltanlagen  
Generating Sets / Pump Sets / Switchboards



Auf der Grefenfurth 25-27 / 51503 Rösrath (Germany)  
Phone+49 2205 8009 0 / Fax +49 2205 8009 234 / Email: Service@Lindenberg-Anlagen.de

## Damage Report

to Lindenberg-Anlagen GmbH

### Informations from manufacturer

LIAG-Order No:.....  
Client..... Type of Generating set.....  
Engine type..... Serial No. engine (14 digits).....  
Alternator type..... Serial No. alternator.....  
Operations hrs..... Date of starting up on board.....

### Operation fluids

a) Lubrication oil..... Antifreeze/Anticorrosion.....

### Complaint / Damage

.....  
.....  
.....  
.....  
.....

First occurrence of damage / Recurrence / Number of previous damages.....

### Cause:

.....  
.....  
.....  
.....

Damage could not be rectified immediately because .....

.....  
.....

Signature/Dept..... Date..... Company.....  
(stamp if possible)