



Pre-shipment Preparation & Short Term Storage SPECIFICATION

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1. Revision history

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2. Change description

Revision	Change Description
-	First Issue
A	Updated format

3. Table of contents

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4. Introduction

- 1.1 This specification defines general requirements for shipment and short term protection and storage.
- 1.2 Short-term storage is defined as storage for a maximum of two (2) months from date of shipment from factory. NOV-ETN shall provide preparations for short-term storage for all delivered equipment.

5. Preservation

- 2.1 Critical surfaces such as cylinders, shafts, bearings, bushings, etc., are coated with a thin layer of commercial preservative, which is applied with a light brush or sprayer.

NOTE: Direct water pressure will wash off the preservation agent.

- 2.2 Non-critical surfaces such as unpainted surfaces, etc., are coated with a Castrol DWX rust inhibitor, which is applied with a brush or sprayer.

NOTE: Direct water pressure will wash off the preservation agent.

6. Preparation for shipment and short term storage

- 3.1 Drain oil from equipment by opening supply and return lines.
- 3.2 Plug all open air and/or hydr connections.
- 3.3 Preservation of critical / non-critical surfaces is performed in accordance with paragraph 2.0.
- 3.4 Dehumidifying agents are placed within the J-Boxes to help absorb moisture.
- 3.5 Protective covers shall be designed and/or fabricated for the specific application area, except that generic thread protectors and plugs and caps for piping connections may be used in the appropriate sizes.
- 3.6 After completion of preservation of all listed components, a final inspection shall be made of the equipment to verify that no obvious components requiring protection have been missed.
- 3.7 If required by a specific Customer contract, preservative or lubrication materials from a designated manufacturer shall be used. Such special requirements will be documented on the Quality Plan for the specific equipment.
- 4.2 Every attempt should be made to avoid widely varying temperatures and high humidity. A clean, dry ambient temperature of 60°F (16°C) is the preferred environment. In high humidity surroundings an ambient temperature of 70°F (21°C) is recommended.

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