

IHI SERVICE INFORMATION	QAS—0021A
DECK CRANE DAMAGE PREVENTION OF CARGO BLOCK	15th Nov. 2013

The cargo block of IHI deck crane was damaged by operator's mistake during operation. We have confirmed with the following 2 cases about the cause of damage from the result of investigations. Please note that do not operation which is not allowed in our instruction manual, it may directly cause an accident.

In order to ensure the safety, please confirm hereunder the safety measures and reinforce the existing cargo blocks.

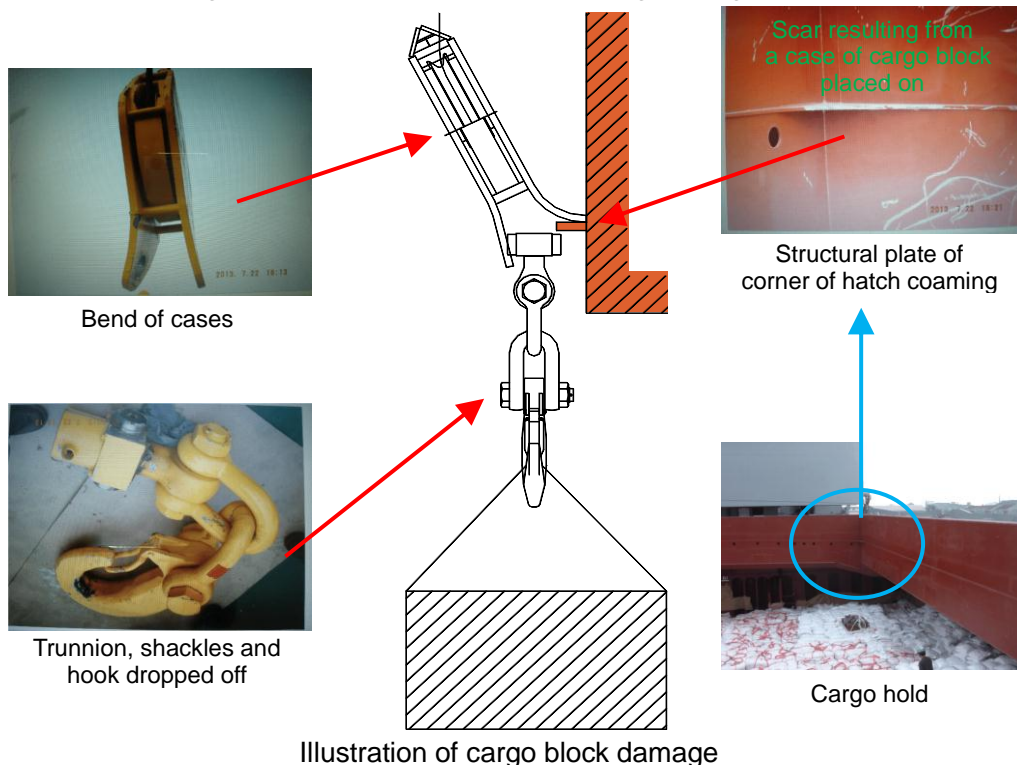
1. The damage to the cargo block

The cargo block body is comprised of two cases holding a sheave unit. In this case, two cases were bent outward and led to dropping trunnion, shackles, and hook held in lower part of two cases.

2. The cause of damage

Case 1: The crane operator continued the lowering operation during a case of cargo block placed on a structural plate in the corner of hatch coaming. This condition was subjected two cases to have excessive force. In the result, it led to cause the damage to the cargo block and cases were bent.

This is the damage from carelessness (Not watching) during operation.

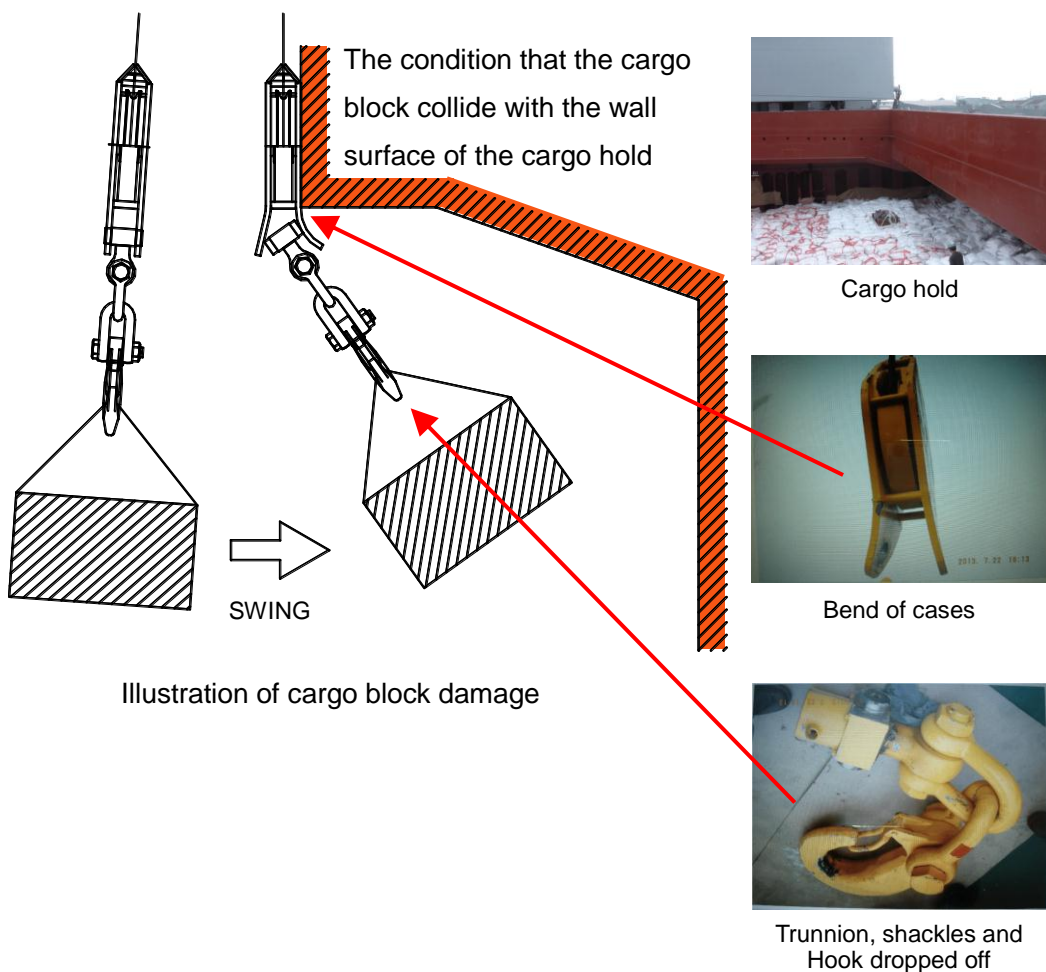


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Case 2 (Result of probable cause by customer and IHI):

The crane operator operated the cargo by swinging motion, it caused the cargo block to collide with the wall surface of cargo hold. This condition is subjected the two cases to have excessive force. In the result, it will lead to cause the damage to the cargo block and the cases are bent.

This kind of operation is not allowed to prevent any damage to the cargo block.



3. Notice for the all persons concerned

**⚠ DANGER**.....1) Operator : Watch cargo and loose gears carefully and do not hit against hull and around objects during operation.

**⚠ DANGER**.....2) Stevedore : Overwatch cargo and loose gears carefully during slinging work and crane operation. Instruct crane operator not to hit against hull and around objects.

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**DANGER**

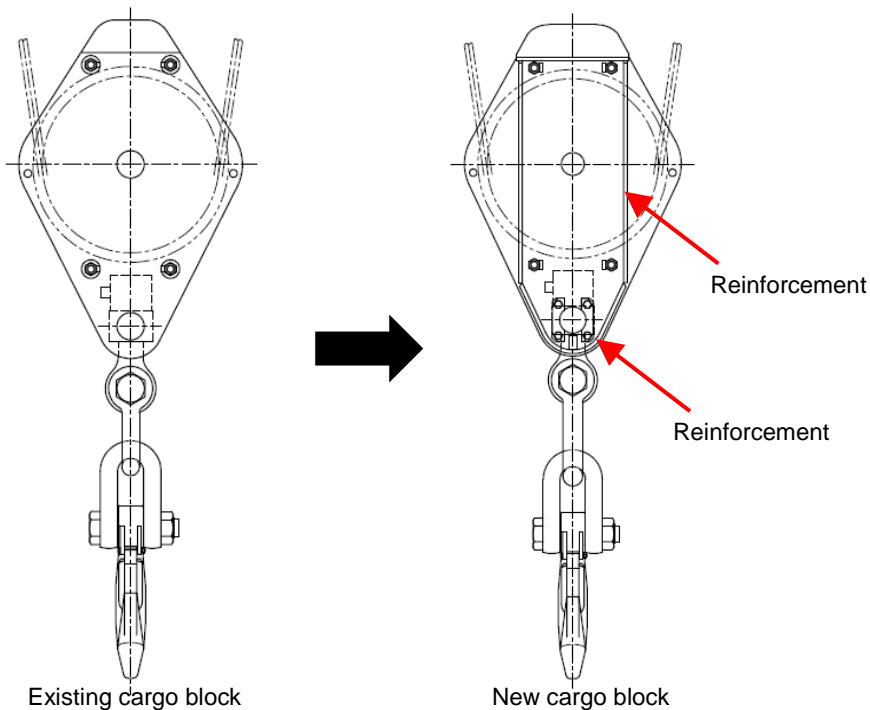
3) Operator : Watch the cargo and the cargo block carefully all the time, and make sure that whether the crane is not in the diagonally condition. The operation in the diagonally condition of the crane is subjected the crane jib to have excessive force. It may cause the damage to the cargo block and any accident.



Hoisted diagonally

4. IHI's future measurement (Safety measure)

We confirmed that the damage to the cargo block was due to operator's mistake during operation as mentioned above. However, we will take measures to increase safety by changing cargo block into more strong structure.



5. Safety measure for existing vessel

We have confirmed that stevedores or other persons in some ports require reinforcement of cargo block to prevent similar case from occurring.

In such cases, please take steps to reinforce for safety by ship's hand on the basis of attached drawing (either "additional bolt" or "additional plate").

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