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05.02.2019	Akland, Norway	1 of 1	HSE-2019-01

This document applies to:		Internal use:	External use:	X
This HSE Bulletin applies to:		HSE Subject:		
WTD	X	Broken spring cause malfunction of Water Tight Door (WTD)		
SAFETY WINDOWS				
AUTOMATION				
Updated by:		VML		
Authorized by technical manager:		BNI		
Approved by managing director:		RLA		

Description of the HSE Bulletin:

Operating doors at high frequency may cause the springs for operation handle to break. Broken spring can cause the handle to go to closing position unintended. This is a critical situation regards to personal safety. The watertight door will then act as it is in remotely closed position. According to SOLAS, the watertight doors shall only be in remote closed mode in emergency situation or for testing purposes. Modified broken springs, unoriginal springs, and neglecting the replacing of springs are seen frequently.

Recommended corrective actions:

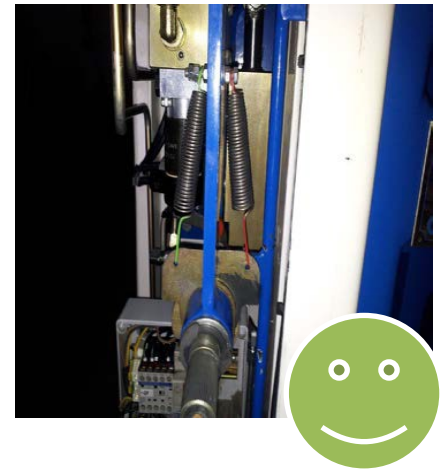
- Replace old (every 40,000 operations or every year) springs with new design springs to improve life time and proper working watertight doors.
- Replace both springs annually and simultaneously.
- Do not modify the springs, or modify broken springs.
- Use only original and certified springs.



WRONG TYPE



WRONG TYPE



CORRECT TYPE

Comments:

IMS has performed a design improvement to improve the life time of the springs. Each spring is colored red or green and packed individually. Each spring is marked with certified heat number. Part numbers for the new springs are: 10000346 (spring, door open) & 10000347 (spring, door close). See IMS user manual for watertight doors for correct installation of springs.