

**Action code: IMMEDIATELY****Product Safety Warning Letter**

Total Solutions &amp; Power (TSP) accumulators

SL2016-614/PRP  
May 2016**Concerns**

Owners and operators of MAN B&amp;W two-stroke diesel engines.

**Summary**

Product safety warning letter concerning accumulators produced by TSP.

Dear Sirs

With reference to a few incidents reported, one of the TSP accumulators installed has suffered from breakage, and parts of the accumulator body were ejected into the engine room causing damage to the engine. Accordingly, such breakage poses a serious potential threat to property and persons and may potentially even result in bodily injuries and/or fatal casualties.

A root cause analysis by TSP of one of the failed components has identified the cause to the thread design in the accumulator made by the maker TSP.

Based on the information provided by TSP, we therefore strongly recommend to inspect the accumulators installed on your engines at the very first opportunity possible in order to verify whether and to what extent your engines have accumulators installed that are made by TSP.

Please ensure that such an inspection is only done when the engine is in the Finished with Engine-mode, and the hydraulic system is without pressure, see also the instruction on page 2.

Yours faithfully

**Mikael C Jensen**

Vice President, Engineering

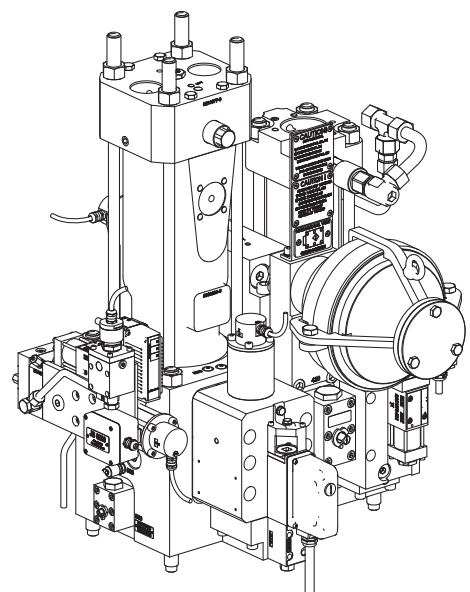
**Per Pallisgård**Head of Product Safety,  
Engineering**Head office (& postal address)****MAN Diesel & Turbo**Teglhølmegade 41  
2450 Copenhagen SV  
Denmark  
Phone: +45 33 85 11 00  
Fax: +45 33 85 10 30  
info-cph@mandieselturbo.com  
www.mandieselturbo.com**PrimeServ**Teglhølmegade 41  
2450 Copenhagen SV  
Denmark  
Phone: +45 33 85 11 00  
Fax: +45 33 85 10 49  
PrimeServ-cph@mandieselturbo.com**Production**Teglhølmegade 35  
2450 Copenhagen SV  
Denmark  
Phone: +45 33 85 11 00  
Fax: +45 33 85 10 17  
manufacturing-dk@mandieselturbo.com**Forwarding & Receiving**Teglhølmegade 35  
2450 Copenhagen SV  
Denmark  
Phone: +45 33 85 11 00  
Fax: +45 33 85 10 16  
shipping-cph@mandieselturbo.com**MAN Diesel & Turbo**Branch of MAN Diesel & Turbo SE,  
Germany  
CVR No.: 31611792  
Head office: Teglhølmegade 41  
2450 Copenhagen SV, Denmark  
German Reg.No.: HRB 22056  
Amtsgericht Augsburg



Fig. 1: TSP accumulator

The TSP accumulator can be identified as shown in Fig. 1.

TSP has informed us that they have designed a protective guard to be installed on their accumulators as a counter measure. Accordingly, in case your engines have accumulators installed that are made by TSP, you should immediately contact TSP directly for installation of the protective guard.

Until the protective guard has been installed, we encourage you to ensure adherence to the following precautions:

1. As always, ensure that the safety instructions of the Instruction Manual are strictly followed.
2. At the first opportunity, check the nitrogen pressure in the accumulators.
3. The operating personnel should minimise their presence/stay in the vicinity of the running engine and should never be in the vicinity of the affected hazardous area in front of or above the accumulators while the hydraulic system is pressurised, which means during engine running and engine start-up.

Any questions and coordination of installation of the protective guards mentioned are handled directly by TSP.

Contact:

TSP Co., Ltd

Fax +82 51 728 6275

E-mail [ywcho@tspco.kr](mailto:ywcho@tspco.kr)

Other approved makers of hydraulic accumulators are:

Super Green Power Tech (Korea)

Hydro Leduc (France)

Keumyong (Korea)

Eagle Industry (Japan)

For any questions regarding this service letter, please write to: [lep@mandieselturbo.com](mailto:lep@mandieselturbo.com)