

Service Information No. 02 / 03

Date: 29.05.2003



Questionnaire Engine Condition in Respect to SOLAS Chapter II-2

All Engines

Please fill in this form completely. Only then we are in a position to offer you extensive and detailed advice.

Date	Engine-No.	Engine type	"Ships name"	Company		

SOLAS II-2 Part A Chapter 15.2.9 High pressure pipes with inflammable liquids > 20bar

Interpretation: This regulation requires all external high pressure fuel delivery lines between the high pressure fuel pumps and fuel injectors to be protected with a jacketed piping system capable of containing fuel from a high pressure line failure. A jacketed pipe incorporates an outer pipe into which the high pressure fuel pipe is placed forming a permanent assembly. The jacketed piping systems to include a means for collection of leakages and arrangements are to be provided for an alarm to be given on a fuel line failure.

The System sold by Caterpillar Motoren complies with the SOLAS regulations in all aspects.

	yes	no
Double wall pipes existing?		
Do the double wall have have connections for leak oil?		
Condition of the pipes. Action necessary?		
Is the injection pump space shielded?		
Is the Cover of the injection pump space in a sufficient condition?		
Offer requested?		
Is a leak oil line existing?		
Is the condition of the leak oil line in order, action necessary?		
Offer requested?		
Is a leak oil monitoring existing?		
Is the condition of the leak oil monitoring in order, action necessary?		
Offer requested?		
Is a leak oil alarm existing?		
Is the condition of the leak oil alarm in a workable condition?		
(Cables, connection to the alarm plant)?		
Offer requested?		
Is a survey by a CAT technician requested?		

SOLAS II-2 Part A Chapter 15.2.11 Low pressure pipes with inflammable liquids 2,5 - 20 bar

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Interpretation: This regulation requires oil fuel, lubricating oil and other flammable oil piping to be screened or otherwise suitably protected to avoid as far as practicable oil spray. Spray shields are intended for use around flanged joints, flanged bonnets and any other flanged connections in oil pressure systems which are located above the floor plates and which have no insulation in way of the joints. The purpose of spray shields is to prevent the impingement of leaked or sprayed flammable liquid onto a hot surface or other source of ignition.

The flange protections supplied by Caterpillar Motoren meet the SOLAS requirements

	yes	no
Is the low pressure pipe still in the original state?		
Is the condition of the low pressure system in order?		
Is an offer for screening of the pipe connections requested?		
Is a survey by a CAT technician requested?		

SOLAS II-2 Part A Chapter 15.2.11 Hot surfaces

Interpretation: This regulation requires that all surfaces with temperatures above 220 Celsius (430 °F) , which may be impinged as a result of a fuel oil, lubricating oil and other flammable oil system failure be properly insulated. Insulation of hot surfaces is preliminary to reduce the risk of fire by reduce the temperatures of surfaces below the auto-ignition temperature of fuel oil or other flammable oils.

Manufacture's instructions should be followed if available. Permanent insulation should be used to the greatest extent possible. Insulation should be provided with readily removable sections to allow access for normal maintenance. Where the insulation used is oil absorbent or may permit the penetration of oil, the insulation should be encased in steel sheathing or equivalent material.

This applies not only to the exhaust piping, but also to other heat surfaces like those of the safety/indicator cocks or pre-heaters with temperatures above the permissible limit.

The exhaust cladding supplied by Caterpillar Motoren is classified by 4 classification societies if mounted by our personnel. The shield of the safety and indicator valves complies also with the SOLAS regulations.

	yes	no
Are the exhaust pipes / exhaust cladding still in the original state?		
Are the safety- / indicator valves insulated?		
Is the condition of the exhaust cladding in good order ?		
Is the visit of a technician to determine necessary actions requested?		