

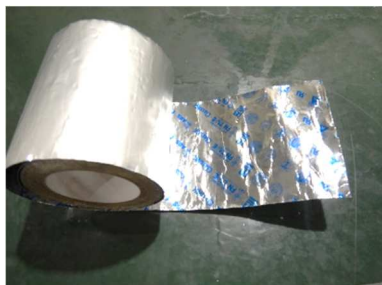
for MITSUI—MAN B&W engines, Spray shielding of flammable oil		No. 113	
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		CHECKED	R.Shimada
		PREPARED	H.Yoshihara
ENGINE TYPE	All type	DATE	26th Oct 2020

We would like to explain the importance of spray shielding treatment as a preventive measure against the risk of leakage and/or scattering of flammable oil from pipe joints which can be a serious potential threat to personnel and property.

Spray shielding tape has been applied on pipe connections as described in Table 1 on next page, to prevent the leakage and/or scattering flammable oil.

However, we have received reports of some cases that the splashing of flammable oil occurred due to the removal of spray shielding during maintenance which was subsequently not replaced prior to sailing.

Therefore, we recommend to all customers to apply spray shielding tape in order to avoid such an incident and furthermore we would like to introduce the locations where and how it should to be implemented.



Spray shielding tape



Sample photo

※Please note that there are a few different types of tape to be used. The type will depend on the location and type of fluid.

※We will supply only one type of tape, as shown in Sample photo, which can be used on any location and with any type of fluid.

PRIORITY			
IMMEDIATELY <input checked="" type="checkbox"/>	AT FIRST OPPORTUNITY <input type="checkbox"/>	WHEN CONVENIENT <input type="checkbox"/>	OTHERS <input type="checkbox"/>

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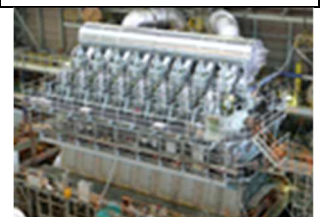


Table 1: Applied location and fluid

Engine type	Type of fluid	Applicable location	Unnecessary location
All engine types	Fuel line	<ul style="list-style-type: none"> •Inlet and return line (Both main and branch line) •Instrumental piping, plug and socket for thermometer •Pressurized drain line 	•Drain line with no pressure
	Piston cooling oil	<ul style="list-style-type: none"> •Pipe connection (Higher than upper grating) •Instrumental piping •Valve, blind plug and socket for thermometer 	•Pipe connection (Lower than upper grating)
	Turbo charger lubricating oil	<ul style="list-style-type: none"> •Inlet pipe (Including the head tank) •Instrumental piping •Valve, blind plug and socket for thermometer 	•Outlet pipe
	Cam shaft lubricating oil	<ul style="list-style-type: none"> •Inlet main pipe and branch pipe •Instrumental piping •Valve, blind plug and socket for thermometer 	
	Cylinder lubricating oil	<ul style="list-style-type: none"> •Pressurized pipe of Booster pump unit (For Alpha lubricator) •Pipe connection between lubricator and non-return valve which are installed with cylinder liner 	<ul style="list-style-type: none"> •Flange which is installed at the side of oil tank on booster pump unit (For Alpha lubricator) •Pipe connection between hull-engine and main tank
ME engine only	Main lubricating oil	<ul style="list-style-type: none"> •Pipe connection (Outside of gear box) •Pipe connection (Higher than upper grating) •Filter unit in case it's installed at upper floor. •Pipe connection around Start up pump (In case it's installed on the gear box casing.) 	<ul style="list-style-type: none"> •Inside of gear box •Filter unit in case it's installed at middle floor

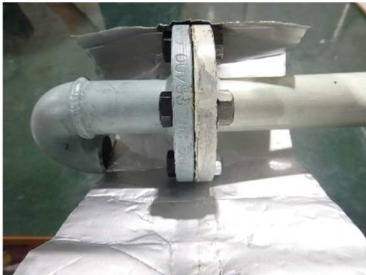
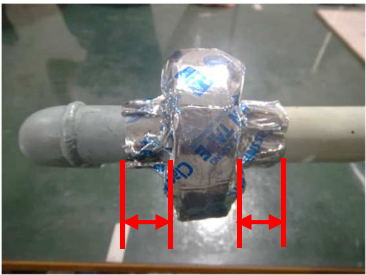

- ※ It's unnecessary to apply to places that are covered with an insulation cover.
- ※ Confirm there is no leakage prior to treatment.
- ※ Degrease thoroughly otherwise the performance may be compromised.


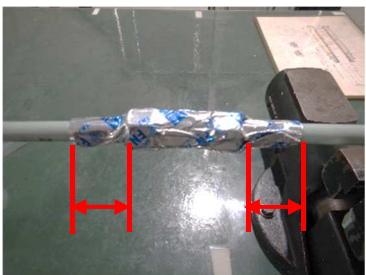



Sample photo of insulation cover

Installation procedure

1. Degrease thoroughly prior to application.
2. Wrap up with the tape as per below photos. If the width is not enough, it should be overwrapped by more than 15mm. (It is preferable to use a piece of tape at each place.)
3. When applying to the flange, it should cover the bolt, nut and pipe union completely and adhere correctly.
4. The tape should cover at least 10mm at the pipe side on both ends. Then, the end of tape should be wrapped again more than one and half times around as shown below.

Flange		
		
After degreasing	10mm of tape at both ends	Tape end treatment

Pipe connection		
		
After Degreasing	10mm of tape on pipe side	Tape end treatment

- ※ The pipe connection between alpha lubricator unit and non-return valve which is installed in the cylinder liner should be covered by more than 20mm on pipe side. However it is unnecessary to apply tape end treatment.
- ※ Thread type of connection should be covered completely and with tape covering more than 10mm at pipe side.

For any inquiries, please contact the sales representative with reference to Service Note No.111.