

Dear Sir or Madam

We have received service reports describing cylinder liner scuffing cases caused by incorrect handling of the main line lubricating oil supply valve to the Alpha lubricator. This resulted in a stop of the cylinder oil supply to the running main engine without an alarm.

To minimise the risk of incorrect handling of the main line lubricating oil supply valve and the resulting damage, we must emphasise the importance of our recommendation given in plate No.

3055-0110-0004. The recommendation states that the main line lubricating oil supply valve can have only two positions: closed or open, and most importantly, with the following functions:

CLOSED – the cylinder oil lubricator system is venting and the “Non-flow cylinder oil” alarm is activated

OPEN – normal cylinder oil flow and the “Non-flow cylinder oil” alarm is not activated

In the reported scuffing cases, the main line lubricating oil supply valve was closed but without connecting the cylinder oil lubricator system to the venting line, see Fig. 1. Unfortunately, this valve position will not activate the “Non-flow cylinder oil” alarm due to the missing venting. If the engine is operated in this state, it will undoubtedly damage combustion chamber components.

For this reason, we find it necessary to emphasise the need for proper action according to the instruction manual, plate No. 3055-0110-0004, and common good workmanship in general.

For further advice and information, contact MAN Energy Solutions in Copenhagen by email at Operation2S@man-es.com

Yours faithfully



Mikael C Jensen
Vice President, Engineering



Stig B Jakobsen
Senior Manager, Operation

Action code: WHEN CONVENIENT

Correct installation of lubricating oil supply valve for the Alpha Lubricator

Non-flow cylinder oil alarm

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Concerns

Owners and operators of MAN B&W two-stroke marine diesel engines.
Type: MC/ME-C and dual-fuel engines

Summary

Incorrect installation of the main line lubricating oil supply valve can block the cylinder oil supply to the Alpha lubricator and the running main engine without sounding the alarm “Non-flow cylinder oil”.



Head office (& po. address)
MAN Energy Solutions
Teglholmegade 41
2450 Copenhagen SV
Denmark
Phone: +45 33 85 11 00
Fax: +45 33 85 10 30
info-cph@man-es.com
www.man-es.com

PrimeServ
Teglholmegade 41
2450 Copenhagen SV
Denmark
Phone: +45 33 85 11 00
Fax: +45 33 85 10 49
PrimeServ-cph@man-es.com

Production
Teglholmegade 35
2450 Copenhagen SV
Denmark
Phone: +45 33 85 11 00
Fax: +45 33 85 10 17
manufacturing-dk@man-es.com

Forwarding & Receiving
Teglholmegade 35
2450 Copenhagen SV
Denmark
Phone: +45 33 85 11 00
Fax: +45 33 85 10 16
shipping-cph@man-es.com

MAN Energy Solutions
Branch of MAN Energy Solutions
SE, Germany
CVR No.: 31611792
Head office: Teglholmegade 41
2450 Copenhagen SV, Denmark
German Reg.No.: HRB 22056
Amtsgericht Augsburg

1. Normal engine operation

Alpha lubricators - cylinder oil supply line

When the main line lubricating oil supply valve has been correctly installed, it has only two positions and the functions described in plate No. 3055-0110-0004.

The plate has been reproduced in Fig. 1, and it states that the two positions are CLOSED or OPEN with the functions:

CLOSED – the cylinder oil lubricator system is venting and the “Non-flow cylinder oil” alarm is activated

OPEN – normal cylinder oil flow and the “Non-flow cylinder oil” alarm is therefore not activated.

Alpha lubricators - **correct** installation of lubricating oil supply valve

IMPORTANT: It is very important that the three-way valve (main line lubricating oil supply valve) has only two locked positions secured by an end-stop, see Fig. 2.

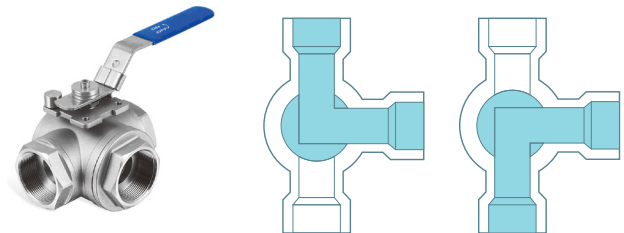


Fig. 2: Three-way valve with two locked positions secured by an end-stop

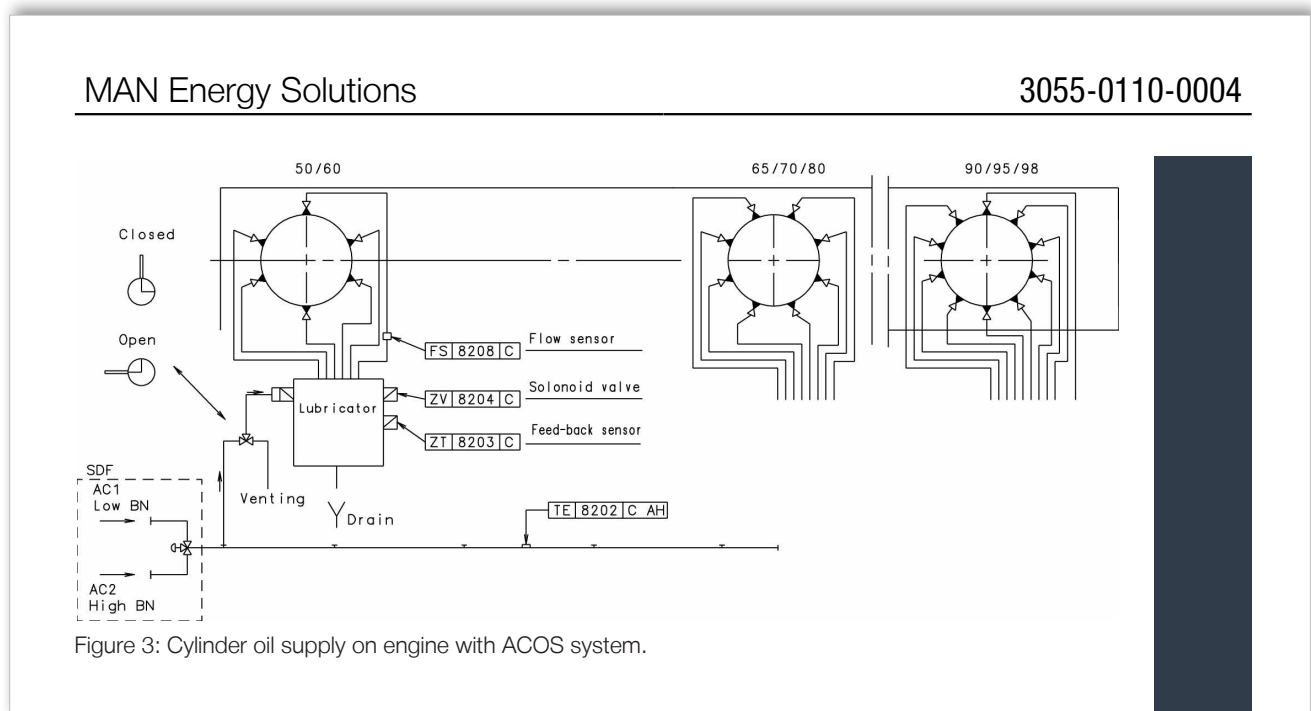


Figure 3: Cylinder oil supply on engine with ACOS system.

Fig. 1: Plate No. 3055-0110-0004 – cylinder oil supply on engine with an ACOS system

2. Service experience

Alpha lubricators - **incorrect** installation of lubricating oil supply valve

In the reported scuffing cases, the main line lubricating oil supply valve was in the closed position but without connecting the cylinder oil lubricator system to the venting line. See also Fig. 1.

Unfortunately, this **incorrect** valve position will **NOT** activate the “Non-flow cylinder oil” alarm since venting of

the cylinder oil lubricator system has not been performed. Operating the engine in this state will undoubtedly damage combustion chamber components.

Fig. 3 shows three-way valves **without** end-stops in an **incorrect** closed position where the connection to the venting line has not been established. It means that there is no cylinder oil supply to the Alpha lubricator, but the “Non-flow cylinder oil” alarm is **NOT** activated.



Fig. 3: Three-way valves **without** end-stops in an **incorrect** closed position, the necessary connection to the venting line has not been established