

**VESTERGAARD
MARINE SERVICE A/S**

MEASUREMENT RECORD

Engine section _____ Engine type ZL 40/48 Ref. _____ Date _____ Issue _____ Document No. _____ Page _____

Installation (ship): _____ Engine type: ZL 40/48 Engine No: _____
 Fuel viscosity (cSt): _____ Temperature (°C): _____ Engine running hours: _____

Cylinder liner, diameter d

Drawing number: _____

Component running hours before measurement: _____

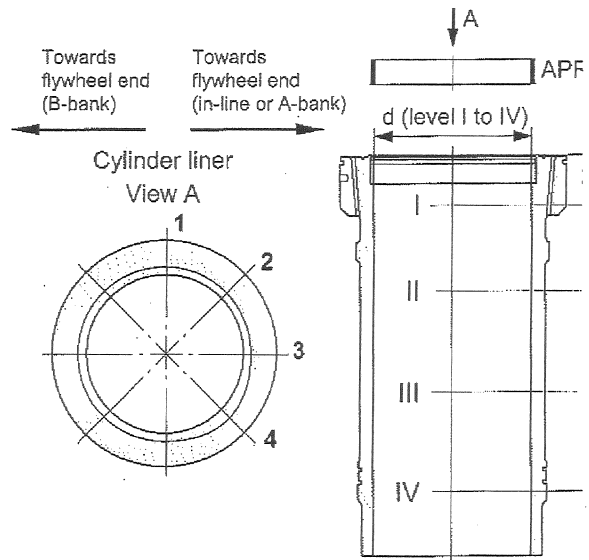
Measured: Mounted Before honing
 Free After Honing

Engine equipped with antipolishing ring (APR): Yes
 No

Bore: 400mm.
 Max clearance: 401,5mm.
 Max ovality: 0,5mm

Reference diameter (or level IV / position 3): Level IV

Measuring positions



Antipolishing ring instructions

1. Inspect the antipolishing ring at every piston overhaul.
2. Turn the antipolishing ring upside down at the first piston overhaul.
3. Change the antipolishing at every second piston overhaul.

Measurements I to be made 90mm from the top of the liner.
 Measurements II to be made 350mm from the top of the liner.
 Measurements III to be made 560mm from the top of the liner.
 Measurements IV to be made 900mm from the top of the liner.

Bank	Cylinder number								
	1	2	3	4	5	6	7	8	9
Cylinder liner diameter d (deviation in 1/100 mm)									
I	400,32								
	33								
	31								
	31								
II	28								
	28								
	28								
	28								
III	27								
	27								
	27								
	27								
IV	25								
	26								
	26								
	26								
Remarks/Manufact. No.	Deviation	Deviation	Deviation	Deviation	Deviation	Deviation			

Date of measurement: 11-07-2011

Place: VMS Frederikshavn

Name: Kim Kokholm