## **jå** Dnv

## **DET NORSKE VERITAS**

Certificate No. 398030-03

## CERTIFICATE FOR DIESEL ENGINE

				ME. Y		£	01.001	.40	
Manufacturer Ulstein B		Bergen AS, Bergen, Norway			W	orks Order No	)_		
Type Designation Ulstein B		Bergen Diesel type BRM-9			Se	rial No.	9178		
Ordered by Ulstein S		hip Thecnology	c, Norway	Or	der No.	398030			
Intended for Langsteir (Yard, Ship, Rig, Installation)		n Slip & Båtbyg	fjord, Norw		Yard No. or Signal letters		179		
THIS IS TO CER	RTIFY that t			below, has	been t	wilt and test	ed in accord	ance with	the
MAIN ENGINE	_	C APPLICATIO	*************	OR 3		AUXILIAR		H	
2-stroke	4-stroke	Number of cylinders	Diameter of cylinders	Length of stroke		MAXIMUM CONTINUOUS OUTPUT 3975 kW   at 750 RPM			
×	1	9	320 mm	360	Hi mm	gh/extreme Ou	tput (group 2 or kW at	3)	RPM
	FIRING PRE			MEAN PRESS				COLUMNS	
			Indicated	Effe	ctive		Cast	Welded	
	185	BAR	26,5	BAR	24,4	BAR	X	[-]	
BEDPLA'	re			SUPE	RCHAF	RGER			
Cast Welded		Make		Туре		N			
X	1		ABB			VTR 354 F	11	HT430	251
	-	RATION DAMPER		IMPORTANT	CONN	ECTED PUMP	Ŝ		
Make Holset 910 x 120			Type Viscous Lub.oli, Nozz			l, Fuel oil, L1	Cooling wat	er, HTcod	ling
Remarks									
The engine wa	as stamped	The marking I	s placed on	side					
The engine wa	s stamped	Engine Bio The following certificate:		ich must be su				luded in the	
	NV NV	Engine Bio The following certificate:	ock manouvre occuponents, whi	ich must be su				luded in the	
398030-03	vings with date is issued on to a Manufacturer permonner below	Engine Bio The following certificate: Overspeed as of approval, see the basis of the maring Survey Arrange	components, whi d protective de page 2	ich must be su		i onboard sh	.18 nebust		

Certificate No. 398030-03

Marking and certificate number for the different parts Crank Shaft CertificateNo.: KO-97-692 Engine Block stamped: 206128-1 NV. TP 7 bar Cylinder Covers stamped: 205900-8, 205902-5, -7, -8, 205903-1, -6, -8, 205904-7, -9, TP 7 bar Drawings with dates of approval and / or type approval certificate number The Crank Shaft drawing no.: 600403 approved by DNV 19. august 1997, re. letter from DNV of same date. Engine Type Approval Certificate no.: M-7198

Declaration by manufacturer when applicable according to the Manufacturing Survey Arrangement.

The undersigned manufacturar declares that the specified product has been built and tested in conformity with requirements stated above and the conditions referred to in.

Quality System Certificate No.: 95-OSL-AQ-6348

Manufacturing Survey Arrangements No. R-11720, DNV, Bergen

This PRODUCT CERTIFICATE is valid only when endorsed by a DNV Surveyor. The endorsement is a statement that the conditions stipulated in the Manufacturing Survey Arrangement for the products in question have been complied with.

Manufacturer: Ulstein Bergen AS

**ULSTEIN BERGEN AS** P.o.box 924, N-5002 Bergen

Bergen, Norway

15.12.98

Place

Date

Karly Jensen Name