Jå Div

DET NORSKE VERITAS

Certificate No. 398030-02

CERTIFICATE FOR DIESEL ENGINE

DIVV			/	1E.1.		601.00	1.40		
Manufacturer	Ulstein B	Ulstein Bergen AS, Bergen, Norway			Works Order No) .			
Type Designation	on Ulstein E	Ulstein Bergen Diesel type BRM-9			Serial No.	9177			
Ordered by	Ulstein S	Ulstein Ship Theonology AS, Ulsteinvik			Order No.	398030			
Intended for (Yard, Ship, Rig, In:	stallation)	n Slip & Bátbyg	njora, rrom	Yard No. or Sig		179			
THIS IS TO C	ERTIFY that of DNV Rules	the Diesel Engire for Classification	ne, described on.	below, has bee	n built and test	ted in accord	sance with	the	
MAIN ENGIN		C APPLICATIO		OR 3	AUXILIAF				
2-stroke	4-stroke	Number of cylinders	Diameter of cylinders	Length of stroke	3975 kW at 750 RPM				
	x	9	320 mm	360 mm	High/extreme Output (group				
MAXIMUM FIRING PRESS		SSURE	Indicated	MEAN PRESSURE		MAIN Cast	Welded		
	184	BAR	26,5	DAR 2	24,4 BAR	X			
BEDPLATE			SUPERCHARGER						
Cast	Welded	Make		Туре		Number			
\neg	x		ABB		VTR 354 F	211	HT430:	252	
TORSIONAL VIBRATION DAMPER Make Holset 910 x 120 Type Viscous				IMPORTANT CONNECTED PUMPS Lub.oil, Nozzie oil, Fuel oil, LT cooling water, HTcooling water					
Remarks:									
The engine	e was stamped		The marking is placed on Engine Block manouvre side						
398030-02	(2)	certificate:		ich must be surveyo			cluded in the	1	
Certificates and	drawings with date	es of approval, see	pege 2,	Place:	Bergen		ORSILA	te	
Quality System, a which gives the reform, mark x in the	and a Manufactur manufacturer pen he corner below.	the basis of the mar ing Survey Arrange mission to complete	ment (MSA)	Date:	1998 .1 Tank	inebust	BERGE	PLING	
X if marked x, s	a damana sableb w nemme fe	nave been caused by any reg	ficent act or omission of De	 Norske Verlies, then Dol Nors	dur Veritos sivel per compen	reyor eaton to such person for	r his proved direct to	ME OF	
		an amount equal to lar times 5 maniplior Del Norske Veriles a							

Certificate No 398030-02

Marking and certificate number for the different parts

Crank Shaft CertificateNo.: KO-98-437

Engine Block stamped: 206122-1 NV,

Cylinder Covers stamped: 205903-2, -3, -4, -7, 205905-1, -3, -4, -6, -7 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-7196

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

The undersigned manufacturer 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

Name