



DET NORSKE VERITAS

Certificate No. 398030-01

CERTIFICATE FOR  
DIESEL ENGINE

404.001.21

Manufacturer	Ulstein Bergen AS, Bergen, Norway	Works Order No.	
Type Designation	Ulstein Bergen Diesel type KRM-8	Serial No.	7931
Ordered by	Ulstein Ship Technology AS, Ulstein, Norway	Order No.	398030
Intended for	Langstein Slip & B�tbyggeri AS, Tomrefjord, Norw	Yard No. or Signal letters	179
(Yard, Ship, Rig, Installation)			

THIS IS TO CERTIFY that the Diesel Engine, described below, has been built and tested in accordance with the requirements of DNV Rules for Classification.

MAIN ENGINE				<input checked="" type="checkbox"/> HSLC APPLICATION GROUP 2		<input type="checkbox"/> OR 3		AUXILIARY		<input type="checkbox"/>	
								EMERGENCY		<input type="checkbox"/>	
2-stroke	4-stroke	Number of cylinders	Diameter of cylinders	Length of stroke	MAXIMUM CONTINUOUS OUTPUT						
	<input checked="" type="checkbox"/>	8	250 mm	300 mm	1620 kW at 750 RPM						
					High/extreme Output (group 2 or 3)						
					kW at RPM						
MAXIMUM FIRING PRESSURE				MEAN PRESSURE				MAIN COLUMNS			
				Indicated				Effective			
144 BAR				24,7 BAR				22,0 BAR			
								<input checked="" type="checkbox"/>			
								<input type="checkbox"/>			
BEDPLATE				SUPERCHARGER							
Cast				Welded				Make			
<input checked="" type="checkbox"/>				<input type="checkbox"/>				Type			
				ABB				VTR254-11			
								Number			
								HT429887			
TORSIONAL VIBRATION DAMPER				IMPORTANT CONNECTED PUMPS							
Make				Type				Lub.oil , Fuel oil, HT water			
Holset 690 x 100				Viscous							

Remarks:

The engine was stamped	The marking is placed on
398030-01	Engine Block manouvre side
The following components, which must be surveyed after the installation, are not included in the certificate:	
Overspeed protective device to be checked onboard ship.	

Certificates and drawings with dates of approval, see page 2.

Place: Bergen

When this certificate is issued on the basis of the manufacturer's Quality System, and a Manufacturing Survey Arrangement (MSA) which gives the manufacturer permission to complete this certificate form, mark x in the corner below.

Date: 1998.11.10

☒ If marked x, see page 2.K re Samn y  
Surveyor

If any person suffers loss or damage which is proved to have been caused by any negligent fact or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

DET NORSKE VERITAS AS, VERITASVEIEN 1, N-1322 H V K, NORWAY, TEL INT: +47 67 57 99 00, TELEFAX: +47 67 57 89 11  
Form No.: 72.00a Issue: April 98

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## Marking and certificate number for the different parts

Crank Shaft Certificate Marking : 206348-1  
Crank Shaft Certificate No.: 398030-06



Engine Block stamped: 206765-1 NV, TP 7 bar

Cylinder Covers stamped: 228708-3, -12, -14, -19, 206089-01, 13, -14, -16.

## Drawings with dates of approval and / or type approval certificate number

The Crank Shaft drawing no.: L 850/38 approved by DNV 07. october 1998.  
Type Approval Certificate no.: M-8612

## 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 product have been fulfilled.

Manufacturer: Ulstein Bergen AS

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

Bergen, Norway  
Place

06.11.98  
Date

Kari Jensen  
Name