

# ACCREDITATION DOCUMENT

## CAL 011

**Det Norske Veritas AS, Technical Advisory Ship and Offshore , Materials  
Laboratory  
Veritasveien 1  
1322 HØVIK**

The scope of accreditation is K05 Mechanical quantities and K05 in accordance with the specifications on the following pages in this document.

The accreditation was initially granted 06.02.1995 and given according to Parliamentary Proposition no. 106 (1989/1990) and the Statutes of Norwegian Accreditation , established by Royal Decree of 7th October 1993.

The laboratory complies with the requirements in NS-EN ISO/IEC 17025 (2005)

The accreditation requires regular surveillance, and is valid until 22.04.2013.

The decision of accreditation made by Norwegian Accreditation implies that the organisation has been found to fulfil the requirements for accreditation within the scope.

The organisation itself is responsible for the results of performed measurements.

NORWEGIAN ACCREDITATION

Administrative/geographical unit:

**Det Norske Veritas AS**  
**Veritasveien 1**  
**1322 HØVIK**

**Permanent facility**

**K05 Mechanical quantities**

Measured quantity Instrument/Gauge	Measurement range/-value	Measurement Capabilities expressed as expanded uncertainty U (k=2)	Remarks/ ref. to internal procedure
Calibration of load cells and force dynamometers in tension			ONO-6-cal-5-i5 Based on EN ISO 7500-1:2004
	0,1 - 1000 N	0,011 %	
	0,5 - 10 kN	0,46 - 0,23 %	
	2,5 - 50 kN	0,43 - 0,24 %	
	10 - 120 kN	0,94 - 0,45 %	
	10 - 200 kN	1,4 - 0,30 %	
	30 - 600 kN	1,2 - 0,28 %	
	100 - 1000 kN	0,34 - 0,36 %	
	200 - 2000 kN	0,60 - 0,26 %	
	900 - 7500 kN	1,0 - 0,40 %	
Calibration of load cells and force dynamometers in compression.			ONO-6-cal-5-i5 Based on EN ISO 7500-1:2004
	0,1 - 1000 N	0,011 %	
	0,5 - 10 kN	0,46 - 0,23 %	
	2,5 - 50 kN	0,43 - 0,24 %	
	10 - 120 kN	0,94 - 0,45 %	
	10 - 200 kN	1,4 - 0,30 %	
	30 - 600 kN	1,2 - 0,28 %	
	100 - 1000 kN	0,34 - 0,36 %	
	200 - 2000 kN	0,60 - 0,26 %	
	300 - 3000 kN	0,60 - 0,26 %	
	3000 - 30000 kN	1,0 - 0,43 %	
Calibration of load cells and force dynamometers in compression			Documented in house method based on BS 1610 part 2 1985 ONO-6-cal-5-i2
	10 - 100kN	0,30 - 0,15 %	
	50 - 500 kN	0,50 - 0,25 %	
	200 - 2000 kN	0,60 - 0,26 %	
	200 - 6000kN	1,3 - 0,30 %	

Administrative/geographical unit:

**Det Norske Veritas AS**  
**Veritasveien 1**  
**1322 HØVIK**

**Field testing laboratory                      K05                      Mechanical quantities**

Measured quantity Instrument/Gauge	Measurement range/-value	Measurement Capabilities expressed as expanded uncertainty U (k=2)	Remarks/ ref. to internal procedure
Verification of uniaxial testing machines in tension			EN ISO 7500-1:2004 ONO-6-CAL-5-i4
	0,1 - 1000 N	0,011 %	
	0,5 - 10 kN	0,46 - 0,23 %	
	2,5 - 50 kN	0,43 - 0,24 %	
	10 - 120 kN	0,94 - 0,45 %	
	10 - 200 kN	1,4 - 0,30 %	
	30 - 600 kN	1,2 - 0,28 %	
	100 - 1000 kN	0,34 - 0,36 %	
	200 - 2000 kN	0,60 - 0,26 %	
Verification of uniaxial testing machines in compression			EN ISO 7500-1:2004 ONO-6-CAL-5-i4
	0,1 - 1000 N	0,011 %	
	0,5 - 10 kN	0,46 - 0,23 %	
	2,5 - 50 kN	0,43 - 0,24 %	
	10 - 120 kN	0,94 - 0,45 %	
	10 - 200 kN	1,4 - 0,30 %	
	30 - 600 kN	1,2 - 0,28 %	
	100 - 1000 kN	0,34 - 0,36 %	
	200 - 2000 kN	0,60 - 0,26 %	
	300 - 3000 kN	0,60 - 0,26 %	
	3000 - 72000 kN	1,0 - 0,43 %	