

Manufacturing Documentation

Test Report EN 10204 - 2.2

Certificate No.: C11-3924

Client :
P.O. No. : 030211STK

S.O. No. : R110799-5-1
P.O. Date : 03-03-2011

Product code : FRB 355.19.5.55.E
Fabrication No. : RX0149

Description Part	Size / Dimension	Material	Heat No.	Remarks
Hook	12	34CrNiMo6	9881 # 92	Y1=180

Remarks:

We hereby certify that:

- The above mentioned product is in accordance with the requirements of the order.
- The above mentioned product has been tested and inspected in accordance with the specifications and has met the requirements.

EC declaration:

The undersigned certifies on behalf of his company, that the above mentioned product is correct and that the described hoisting equipment is according to the regulations of the Machine Directive 2006/42/EC, appendix II-A.

The assembling, testing and examination was carried out under the supervision by a competent person, according to the QA standards, approved by LRQA The Netherlands, Certificate No. 653009.

Reference standards:

- NEN 3318 / NEN 3320, for blocks
- NEN 3320, for swivels
- DIN 15401 / DIN 15402, for hooks
- DIN 15061 / DIN 15063, for sheaves
- EN 13411-4 / RR-S550D / NEN 2729 / ISO 3189-3 / FEM 1.001, for sockets

Name: A.F. Douma / QA Manager

Date: 25-5-2011



Certificate of test and thorough examination of Accessories and/or Lifting Attachments

This certificate is the international form as recommended by the International Labour Office in accordance with ILO Convention No. 152

Marking	Description of item	Number tested	Date of test	Proofload (kN)	Working load limit (M-Tonnes)*
RX0149	<p>FAST REEVE BLOCK, 5 16" sheaves ø410/ø355mm for wire rope ø19mm FRB 355.19.5.55.E</p> <p>Drawing : R085406 Weight : 500 KG</p> <p>Hook</p> <p>Type : Hook - 12 - 34CrNiMo6 Heat No. : 9881 # 92 Dim. : Y1=180</p>	1	05-2011	769	55

*) The expression "M-tonnes" shall mean a tonne of 1.000 kg.

Examination and testing is carried out under the supervision of the hereunder mentioned person by a competent person, according to the ILO Convention No. 152.

Name and address of makers / suppliers:

Name and address of firm making the test:


Name: A.F. Douma / QA Manager

Date: 25-5-2011



Inspection Certificate

EN 10204 - 3.1

Manufacturer Certificate No. : 2011167 Type of Hook : Point hook acc. DIN 15401 Size : 12V Quantity : 18 Heat No. : 9881 (83340) Material : 34CrNiMo6	Marking:  12 V 9881 # 91 u/i 108 DIN 15401
--	--

Chemical analysis

	C	Mn	Si	Ni	Cr	S	P	Mo	Al	Cu	Nb	V
EN 10083-1	%	%	%	%	%	%	%	%	%	%	%	%
Rated values	0.30 - 0.38	0.50 - 0.80	≤ 0.40	1.30 - 1.70	1.30 - 1.70	≤ 0.035	≤ 0.035	0.15 - 0.30				
Actual values	0,34	0,61	0,25	1,44	1,43	0,006	0,009	0,18	0,034	0,23		

Mechanical properties

	Tensile	Yield	Elongation	Impact test	ISO V
DIN 15400	RM (N / mm ²)	ReH / Rp0.2 (N / mm ²)	A (%)	J	T (°C)
Rated values	---	620 (min.)	---	≥ 27J	-20°C
Actual values	960	833	17,5	68-85-67	-40

Heat treatment

Hooks are treated to the values of solidity class: **V**


The heat treatment of the materials is in accordance with the applicable material specification.

NDE Examinations

Dimensional examination	All measurement deviations under tolerance
Ultrasonic examination	Satisfactory, free of internal separations which may effect utilization
Magnetic Particle examination	Satisfactory, free of surface cracks which may effect utilization

Remarks

The above mentioned product is in accordance with the regulations of the EC Machine Directive 2006/42/EC.
 The reported values are strictly in accordance with the original mill certificates.
 Quality certificate for forged load hooks according to DIN 15404.

Name : A.F. Douma 
Position : QA Manager
Date : 7-4-2011

