

423
no2



MAEDA SEISAKUSHO CO., LTD.

1095 Onbegawa, Shinonoi, Nagano City

Nagano 388-8522, JAPON

TEL +81-(0) 26-292-2228

FAX +81-(0) 26-293-8499

<http://www.maesei.co.jp/english/index.html>



DECLARATION CE DE CONFORMITE DE MACHINE

Le Fabricant

Nom de société:

Maeda Seisakusho Co., Ltd.

Adresse:

1095 Onbegawa, Shinonoi, Nagano City

Nagano, 388-8522 JAPON

Le Représentant européen

Nom de société

AB Kranlyft

Adresse:

Fibervagen 1 435 33 Molnlycke SUEDE

Tél +46 31 80 70 00

Déclare par la présente que la machine décrite ci-dessous:

Produit:

Mini-grue sur chenilles

Modèle:

CC423S-1

(puissance kW = 17.5)

Serial Number:

21086

Année de Construction:

2019

- Est en conformité avec les directives suivantes:

La directive machines 2006/42/EC

Les deux derniers chiffres de l'année dans laquelle le marquage CE était apposé sont 12

- Est en conformité avec les provisions suivantes

" Directive de basse tension 2006/95/EC "

" Directive CEM 2014/30/EC "

" Directive d'émissions sonores dans l'environnement des matériels destinés à être utilisés à l'extérieur des bâtiments 2000/14/EC, modifiée par la Directive 2005/88/EC "

- Niveau de puissance acoustique mesuré = 95.7 dB LWA

- Niveau de puissance acoustique garanti = 101 dB LWA

Et déclare en outre que:

- Les (parties / clauses des) normes harmonisées suivantes ont été appliquées:

EN ISO12100-:2010

Sécurité des machines - Principes généraux de conception - Evaluation et réduction des risques

EN60204-1:2006

Sécurité des machines - Equipement électrique des machines - Partie 1: Exigences générales

EN13000:2010 (Reference)

Grues - Grues mobiles

EN61000-6-2:2005

Compatibilité électromagnétique (CEM) - Partie 6-2: Normes génériques - Immunité pour les environnements industriels

EN61000-6-4:2007

Compatibilité électromagnétique (CEM) - Partie 6-4: Normes génériques - Emission pour les environnements industriels

EN ISO3744:1995

Acoustique. Détermination de niveaux de puissance acoustique émis par les sources de bruit à partir de la pression acoustique.

Méthode d'expertise dans des conditions approchant celles du champ libre sur plan réfléchissant

Place: Nagano, Japon

Date: 28 avril, 2019

Shigeki Fukase

Directeur / Overseas Sales Department

MAEDA SEISAKUSHO CO., LTD.



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Nagano 388—8522, JAPAN
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TO WHOM IT MAY CONCERN:

Certificate of Test and Inspection

4 Fall and 2 Fall, 3 Sheave Hook Block
Manufacturer :MAEDA SEISAKUSHO CO.,LTD.
Model for: CC423S-1
Serial No. : 21086
Hook Block No. : M9303

We hereby certify that this hook block has been tested and inspected in accordance with the quality standard of our company and we guarantee the quality of this product.

Hook Block Ass'y:	Part No. 103-1124400
	Drawing No. 103-4561600
Specifications:	Refer to the attached document for details
Safe Working Load:	2,950 kg
Sheave rope diameter:	8 mm
Actual value (Internal diameter):	80 mm
Date of Test and Inspection:	April 28, 2019

Signed on behalf of MAEDA SEISAKUSHO CO.,LTD.:

Seiichi Yamaguchi
General manager /Quality Assurance Division
MAEDA SEISAKUSHO CO.,LTD.



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EC DECLARATION OF CONFORMITY OF THE MACHINERY

Manufacturer

Company Name: Maeda Seisakusho Co., Ltd.
Address: 1095 Onbegawa, Shinonoi, Nagano City
Nagano, 388-8522 JAPAN

European Representative

Company Name: AB Kranlyft
Address: Fibervagen 1 435 33 Molnlycke SWEDEN
TEL +46 31 80 70 00

Hereby declares that the machine described below:

Product Name: Mini Crawler Crane
Model: Searcher hook
Serial Number: CS023
Year of Manufacture: 2019

-is in conformity with the following directives
Machinery Directive 2006/42/EC

-is in conformity with the following provisions

“ Low Voltage Directive 2006/95/EC ”
“ EMC Directive 2014/30/EC ”
“ Noise emission in the environment by equipment for use outdoors Directive 2000/14/EC,
amended by the Directive 2005/88/EC”

- And furthermore declares that:

- The following (parts/clauses of) harmonized standards have been applied:

EN ISO12100-:2010	Safety of machinery – General principles for design – Risk assesment and risk reduction
EN60204-1:2006	Safety of machinery – electrical equipment of machines – Part 1: General requirements
EN13000:2010 (Reference)	Cranes – Mobile cranes
EN61000-6-2:2005	Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environments
EN61000-6-4:2007	Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission for industrial environments
EN ISO3744:1995	Acoustics. Determination of sound power levels of noise sources using sound pressure. Engineering method in an essentially free field over a reflection plane

Place:Nagano, Japan

Date: April 28, 2019

Shigeki Fukase
Manager / Overseas Sales Department
MAEDA SEISAKUSHO CO., LTD.

Certificate number NB423E



CERTIFICATE OF TEST AND THOROUGH EXAMINATION OF CRANE

Name and address of owner of crane:	Kranlyft-group , Fibervagen 1, 435 33 Molnlycke , Sweden
Name and address of maker of crane:	Maeda Seisakusho Co., Ltd.
Type of crane and nature of power.	Hydraulic tracked diesel engined telescopic crawler crane, Mode CC423S-1
Date of manufacture of crane.	2019
IDENTIFICATION NUMBER:	(a)Maker's serial number : 21086 (b)Owner's distinguishing Mark or number(if any): not registered
Make and type of automatic safe load Make and type of derricking interlock , if required:	Maeda Seisakusho Co., Ltd. N/A
Date of last previous test of crane:	New machine
Date of last previous thorough examination of crane:	New machine
Safe working load or loads:	See attached sheets 1 to 4(5)
In the case of a crane with a derricking jib or jibs the max. radius at which the jib or jibs may be worked (in feet):	See attached sheets 1 to 4(5)
Defects noted and alterations or repairs required before crane is put into service:	None.

I hereby certify that the crane described in this certificate was tested and thoroughly examined on 28/4/19 and that the above particulars are correct.

Signature:

Nishizawa

Qualification Engineer

Name and address of person , company or association by whom
The person conducting the test and examination is employed.

Maeda Seisakusho Co., Ltd.
1095 Onbegawa , Shinonoi ,
Nagano city , Nagano prefecture
388-8522 , Japan

Date of certificate:

28/4/19

For notes see overleaf.

SERIAL NO :

MAEDA

CC423S-1

CERTIFICATE No. NB423E

CERTIFICATE OF TEST AND THOROUGH EXAMINATION OF CRANE				PAGE 1	
• Safe working load or loads.	LENGTH OF JIB (METRES)	RADIUS (METRES)	ANGLE °	TEST LOAD KG	SAFE WORKING LOAD KG
In the case of a crane with a	3.18m boom	1.50		3663	2930
variable operating radius (including	1 boom	2.00		NIL	1730
a crane with a derricking jib or with		2.50		NIL	1200
interchangeable jibs of different		2.85		NIL	980
lengths) the safe working load at					
various radii of the jib , jibs,					
or crab must be given. Test loads at					
various radii should be given in					
column (IV) and in the case of a					
safe working load which has been					
calculated without the application of					
a test load "NIL" should be entered					
in that column .					
• In the case of a crane with a					
derricking jib or jibs the maximum					
radius at which the jib or jibs may					
be worked is : 2.85m					
• We herewith confirm that we test lift all our manufactured cranes individually with					
1.25 times the rated load before delivering .					
• We also confirm that the group of classification of the mechanism as a whole is M3					
(for hoist) and type of crane is A1 in accordance with JIS B 8822-1 (ISO 4301-2).					
• I hereby certify that the crane described in this certificate was tested and thoroughly					
examined on 28/4/19 and that the above particulars are correct .					
MAEDA SEISAKUSHO CO., LTD.					
TEL : +81-(0)26-292-2304 FAX : +81-(0)26-293-8768					

DATE OF CERTIFICATE : 28/4/19 SIGNATURE 西沢

Nishizawa

Nishizawa

SERIAL NO:

MAEDA

CC423S-1

CERTIFICATE No. NB423E

CERTIFICATE OF TEST AND THOROUGH EXAMINATION OF CRANE				PAGE 3	
• Safe working load or loads.	LENGTH OF JIB (METRES)	RADIUS (METRES)	ANGLE °	TEST LOAD KG	SAFE WORKING LOAD KG
In the case of a crane with a	6.87m boom	1.50		NIL	1870
variable operating radius (including	1+2+3 boom	2.00		NIL	1710
a crane with a derricking jib or with		2.50		1488	1190
interchangeable jibs of different		2.85		NIL	980
lengths) the safe working load at		3.00		NIL	900
various radii of the jib , jibs,		3.50		NIL	720
or crab must be given. Test loads at		4.00		NIL	600
various radii should be given in		4.50		NIL	500
column (IV) and in the case of a		4.70		NIL	460
safe working load which has been		5.00		NIL	430
calculated without the application of		5.50		NIL	370
a test load "NIL" should be entered		6.00		NIL	330
in that column .		6.54		NIL	290
• In the case of a crane with a					
derricking jib or jibs the maximum					
radius at which the jib or jibs may					
be worked is : 6.54m					
• We herewith confirm that we test lift all our manufactured cranes individually with					
1.25 times the rated load before delivering .					
• We also confirm that the group of classification of the mechanism as a whole is M3					
(for hoist) and type of crane is A1 in accordance with JIS B 8822-1 (ISO 4301-2).					
• I hereby certify that the crane described in this certificate was tested and thoroughly					
examined on 28/4/19 and that the above particulars are correct .					
MAEDA SEISAKUSHO CO., LTD.					
TEL : +81-(0)26-292-2304 FAX : +81-(0)26-293-8768					

DATE OF CERTIFICATE : 28/4/19 SIGNATURE 西沢

Nishizawa

CERTIFICATE No. NB423E

SERIAL NO: _____

MAEDA

CC423S-1

CERTIFICATE OF TEST AND THOROUGH EXAMINATION OF CRANE					PAGE 4
• Safe working load or loads.	LENGTH OF JIB (METRES)	RADIUS (METRES)	ANGLE °	TEST LOAD KG	SAFE WORKING LOAD KG
In the case of a crane with a	8.71m boom	1.50		NIL	1190
variable operating radius (including	1+2+3+4 boom	2.00		NIL	1190
a crane with a derricking jib or with		2.50		1488	1190
interchangeable jibs of different		2.85		NIL	980
lengths) the safe working load at		3.00		NIL	900
various radii of the jib , jibs,		3.50		NIL	720
or crab must be given. Test loads at		4.00		NIL	600
various radii should be given in		4.50		NIL	500
column (IV) and in the case of a		4.70		NIL	460
safe working load which has been		5.00		NIL	430
calculated without the application of		5.50		NIL	370
a test load "NIL" should be entered		6.00		NIL	330
in that column .		6.54		NIL	290
		7.00		NIL	260
• In the case of a crane with a		7.50		NIL	235
derricking jib or jibs the maximum		8.00		NIL	215
radius at which the jib or jibs may		8.38		NIL	200
be worked is : 8.38m					
• We herewith confirm that we test lift all our manufactured cranes individually with 1.25 times the rated load before delivering .					
• We also confirm that the group of classification of the mechanism as a whole is M3 (for hoist) and type of crane is A1 in accordance with JIS B 8822-1 (ISO 4301-2).					
• I hereby certify that the crane described in this certificate was tested and thoroughly examined on 28/4/19 and that the above particulars are correct .					
MAEDA SEISAKUSHO CO., LTD.					
TEL : +81-(0)26-292-2304 FAX : +81-(0)26-293-8768					

DATE OF CERTIFICATE : 28/4/19 SIGNATURE  Nishizawa

CERTIFICATE No. NB423E

SERIAL NO:

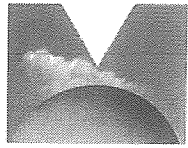
MAEDA

CC423S-1

CERTIFICATE OF TEST AND THOROUGH EXAMINATION OF CRANE					PAGE 5
• Safe working load or loads.	LENGTH OF JIB (METRES)	RADIUS (METRES)	ANGLE °	TEST LOAD KG	SAFE WORKING LOAD KG
In the case of a crane with a variable operating radius (including a crane with a derricking jib or with interchangeable jibs of different lengths) the safe working load at various radii of the jib , jibs, or crab must be given. Test loads at various radii should be given in column (IV) and in the case of a safe working load which has been calculated without the application of a test load "NIL" should be entered in that column .	SEARCHERHOOK 3.18m boom 1 boom	1.50 2.00 2.50 3.00 3.50 3.83		NIL NIL NIL 1070 NIL NIL	850 850 850 850 850 850
• In the case of a crane with a derricking jib or jibs the maximum radius at which the jib or jibs may be worked is : 3.83m					
NOTE : load on the searcher hook must not exceed the capacity of the main boom					
• We herewith confirm that we test lift all our manufactured cranes individually with 1.25 times the rated load before delivering .					
• We also confirm that the group of classification of the mechanism as a whole is M3 (for hoist) and type of crane is A1 in accordance with JIS B 8822-1 (ISO 4301-2).					
• I hereby certify that the crane described in this certificate was tested and thoroughly examined on 28/4/19 and that the above particulars are correct .					
MAEDA SEISAKUSHO CO., LTD.					
TEL : +81-(0)26-292-2304 FAX : +81-(0)26-293-8768					

DATE OF CERTIFICATE : 28/4/19 SIGNATURE 

Nishizawa



MAEDA

MAEDA SEISAKUSHO CO., LTD.

1095 Onbegawa Shinonoi, Nagano City

Nagano 388-8522, JAPAN

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CERTIFICATE FOR LOAD TEST

We herewith confirm that following model:

MC104OER	LC383M-5
MC174CRM	LC785M-8B
MC285CRM	MK1033CW-1
MC285CRME	MK1033CWH-1
MC285CGRM-2	MK1033CWE-1
MC285CRM-2	MK1033CWEH-1
MC285CRME-2	MC815CWM
MC305CRM-2	MC815CWME
MC305CRME-2	CC985S-1
MC405CRM	CC1485S-1
MC405CRME	CC423S-1

Have been test-lifted with 1.25 times the rated total load at our factory.

We also confirm that the group of classification of the mechanism as a whole is M3

and type of crane is A1 in accordance with ISO 4301-2 (JIS B 8822-1).

Place:Nagano, Japan
Date: March 23, 2018

Kazutaka Kitada
Managing Director / Industrial machinery Division
MAEDA SEISAKUSHO CO., LTD.

Hook Structural Calculation Sheet

Cross section performance of risky cross-section

$$I = \frac{(B+b)^2 + 2Bb}{36(B+b)} \cdot h^3$$

$$= \frac{(40+16)^2 + 2 \times 40 \times 16}{36(40+16)} \times 57^3$$

$$= 405660.9 \text{ (mm}^4\text{)}$$

$$e1 = \frac{1}{3} \times \frac{2B+b}{B+b} \cdot h$$

$$= \frac{1}{3} \times \frac{2 \times 40 + 16}{40 + 16} \times 57 = 33 \text{ (mm)}$$

$$e2 = h - e1 = 57 - 33 = 24 \text{ (mm)}$$

$$\sigma_A = \frac{W}{A} + \frac{P(a+e2)e1}{I}$$

$$= \left(\frac{2950}{1596} + \frac{2950 \times 64 \times 33}{405660.9} \right) \times 9.81$$

$$= 132.5 \text{ (N/mm}^2\text{)}$$

$$S = \sigma_b / \sigma_A = 687 / 132.5 = 5.18$$

$$\sigma_R = \frac{W}{A} + \frac{P(a+e2)e2}{I}$$

$$= \left(\frac{2950}{1596} + \frac{2950 \times 64 \times 24}{405660.9} \right) \times 9.81$$

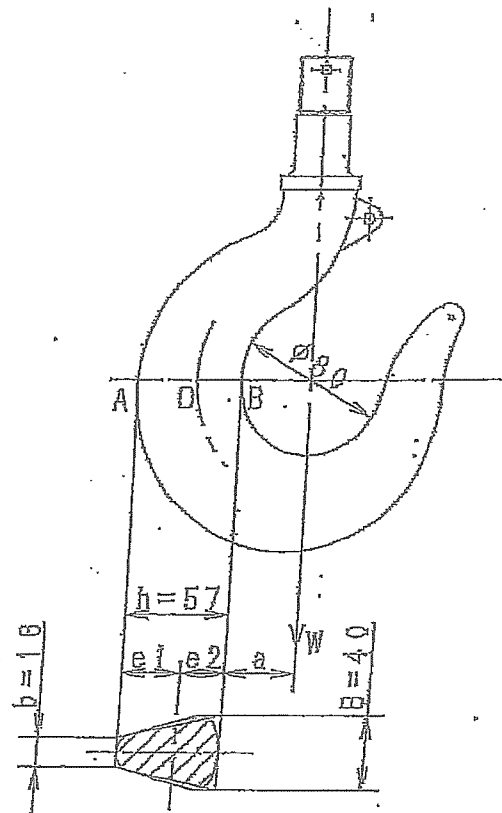
$$= 127.7 \text{ (N/mm}^2\text{)}$$

$$S = \sigma_b / \sigma_R = 687 / 127.7 = 5.38$$

Material of hook: S45C

Tensile strength: $\sigma_b = 687 \text{ (N/mm}^2\text{)}$

Yield strength : $491 \text{ (N/mm}^2\text{)}$



W : Rated load 2950 kg

A : Cross section area

$$A = \frac{B+b}{2} \times h$$

$$= \frac{40+16}{2} \times 57 = 1596 \text{ (mm}^2\text{)}$$

Hook Structural Calculation Sheet

MODEL CC423S-1

Drawing No. 103-4561600

TESAC

ワイヤロープ証明書
CERTIFICATE FOR STEEL WIRE ROPE

No. 0107296

2018, 02, 26

TW0V00314-1

株式会社テサックワイヤロープ

TESAC WIRE ROPE CO., LTD.

二色浜製造所 NISHIKINOHAMA MANUFACTORY

大阪府豊中市二色町1-1

11-1 NISHIKINAKAMACHI

KAIZUKA-SHI, OSAKA, JAPAN

本ワイヤロープは下記規格により検査し本記載通りの検査成績であることを証明致します。

We hereby certify that this steel wire rope is examined and tested strictly according to the undermentioned specification at our works and we guarantee the quality of the article.

適用規格 [SPECIFICATION]

TESAC SPEC.

製品番号 [PRODUCT NO.] HB00678-011
ロープの構成 [CONSTRUCTION] IWRC 6 X WS (26) 0/0
ロープの径 [NOMINAL DIA. OF THE ROPE].. 8 (ACT. 8.16) mm
ロープの長さ [LENGTH] 73 m
種 別 [GRADE] B
規定破断力 [SPECIFIED BREAKING LOAD].... 42.4 kN
実際破断力 [ACTUAL BREAKING LOAD] 46.1 kN
外 観 [APPEARANCE] GOOD
素線試験 [WIRE TEST] GOOD
備 考 [NOTE]

CONTINUOUS LENGTH

PRODUCT NO.	LENGTH	PRODUCT NO.	LENGTH
HB00678-012	73 m	HB00678-013	73 m
HB00678-014	73 m	HB00678-015	73 m
HB00678-016	73 m	HB00678-017	73 m
HB00678-018	73 m	HB00678-019	73 m
HB00678-020	73 m	HB00678-021	73 m
HB00678-022	73 m		

部番 : 336844500001

検査 : XX592242

74 Ueki

INSPECTING SECTION



Environmental Data Sheet

Maker: Maeda Seisakusho Co., Ltd.	Machine Type: Mini Crawler Crane
Model: CC423S-1	Serial Number: 21086
Year of Manufacturing: 2019	

POWER SOURCE

Diesel ☒	Gasoline ☐	Electric ☐	
Maker: Yanmar	Model: 3TNV88F-EPMBA	Serial Number: 45234	
Year of Manufacturing: 2019	Power Output: 17.5kw	Displacement: 1.642L	Emission Level: US Tier4 (N/A for EU)
Pollution Index: CO 3.17g/kWh NOx+NMHC 6.50g/kWh PM 0.27g/kWh			
Fuel Type: Diesel	Av. Fuel Consumption: N/A 3.8 L/H	Consumption at 50% Load: N/A	Consumption at 100% Load N/A 5.0 L/H

OIL, LUBRICATION, LIQUID

	Type	Volume, Liter	Change every	Quality	Biodegradable
Engine	Engine Oil	6.7	500	Mineral	No
Coolant	Water/AF	5.5	2000	Mineral	No
Winch Gear	Gear Oil	0.75	1000	Mineral	No
Travel Gear	Gear Oil	0.6	1000	Mineral	No
Hydraulic system	Hyd Oil	54	2000	Mineral	No
Greases					

CRAWLERS

Maker: KOMATSU	Model/Type: For CC423 (Steel Shoes)	Crawler Size: 1,650 x 300mm
HA oil tread: No	Zinc in tread: No	Cadmium in tread: No

SOUND POWER LEVEL dB (A)

	Minimum	Maximum
Measured		95
Guaranteed		101

PAINT, BATTERIES, RECYCLING

Percentage of water-based paint (%)	N/A
Percentage of solvent-based paint (%)	N/A
Quantity of Batteries	1
Type of Batteries	Lead acid
Quantity of marked plastic parts (%)	%
Percentage recyclable of machine weight	%