



Audit for the application/renewal on Type approval of Sling Sets for Offshore Containers

Project: **TIGER OFFSHORE type approval**

Client: **TIGER OFFSHORE**

Office: **Lafayette**

Client's Order Number: **No applicable**

Date: **17 May 2018**

Order Status: **Open**

Inspection Dates

First: **15 March 2018**

Final: **27 April 2018**

This statement is issued to **Tiger Offshore, inspection and testing at Port of Fourchon, Louisiana to certify the actions completed to listed the activities completed for the Type approval of Sling Sets for Offshore Containers**

During the visit at the Port of Fourchon location the following activities were completed:

1. Verification of the lifting sling sets including:
 - a. Applicable standards: EN 13414-1
 - b. Material grades: wire ropes 1960 or EIPS
 - c. Range of sizes for each component including dimensions, working load limits, proof load and braking load as follow:
Wire rope diameter:

Wire Rope

Core	Size	Type
Steel	3/4" (19mm)	IWRC 6x26
Steel	7/8" (22mm)	IWRC 6x26
Steel	1" (24mm)	IWRC 6x26
Steel	1 1/8" (28mm)	IWRC 6x36
Steel	1 1/4" (32mm)	IWRC 6x36
Steel	1 1/2" (38mm)	IWRC 6x36

Master links/Sub assembling:

Master Links
William Hackett

Type Approval # S-7732

Sub Assemblies

Model #	Size	WLL (lbs.)
HA28QA	1 1/8" (28mm)	31,958
HA32QA	1 1/4" (32mm)	37,688
HA36QA	1 7/16" (36mm)	50,962
HA40QA	1 9/16" (40mm)	61,932
HA45QA	1 3/4" (45mm)	84,413

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HA50QA	2" (50mm)	99,180
HA60QA	2 3/8" (60mm)	143,260
HA70QA	2 3/4" (70mm)	187,340

Master Links

Model #	Size	WLL (lbs.)
HA22ML	7/8" (22mm)	12,783
HA25ML	1" (25mm)	19,461
HA28ML	1 1/8" (28mm)	26,007
HA36ML	1 7/16" (36mm)	50,692
HA40ML	1 9/16" (40mm)	61,932
HA45ML	1 3/4" (45mm)	84,413
HA50ML	2" (50mm)	99,180

Crosby

Type Approval # TAS000001V

Master Links Sub Assemblies A-347

Model #	Size	WLL (lbs.)
	1 1/8"	31,900
	1 7/32"	37,500
	1 9/16"	61,900
	1 3/4"	84,400

Gunnebo Johnson

Type Approval # S-7154

Artic Offshore Master Link MT Sub Assemblies

Model #	Size	WLL (tonnes)
MT-9T-OS	1" (25mm)	9.3
MT-12T-OS	1 1/8" (28mm)	12.5
MT-18T-OS	1 1/4" (32mm)	18.5
MT-24T-OS	1 7/16" (36mm)	24
MT-30T-OS	1 9/16" (40mm)	30.5
MT-40T-OS	1 3/4" (45mm)	40
MT-50T-OS	2" (50mm)	50

Shackles

Shackles

Van Beest

Type Approval # TAS000011V

Green Pin Bow Shackles w/ Safety Bolt Type G-4163

Model #	Size	WLL (tons)
3/4"	19 mm	4.75
7/8"	22 mm	6.5
1"	25 mm	8.5
1 1/8"	28 mm	9.5
1 1/4"	32 mm	12
1 3/8"	35 mm	13.5
1 1/2"	38 mm	17
1 3/4"	45 mm	25

Crosby

Bolt Type Shackles G-2130

Type Approval # S-8357

Model #	Size	WLL (tons)
1019515	3/4"	4.75

1019533	7/8"	6.5
1019551	1"	8.5
1019597	1 1/8"	9.5
1019597	1 1/4"	12
101613	1 3/8"	13.5
1019631	1 1/2"	17
1019659	1 3/4"	25

2. Assembly drawing of the lifting sling, and details of each components
3. Copies of relevant material documentation: all enclosed
4. Information of subcontractor: no subcontractor involved on the production
5. Instructions for selecting and assembling lifting slings for each application, including determination of required strength and selection of components to be used, etc: enclosed
6. Description of all manufacturing procedures: all termination are Flemish eyes (mechanical splice)
7. Details of the identification tag for the sling: round tag with all the information, see enclose guidance/procedure
8. Description of the test methods and the procedures for all relevant prototype and production tests: break test of a standard leg per size of wire rope per reel in use.
9. Verification of the certificate of the sling sets.

On this date an audit was performed including:

1. Training of the personnel, including the supervisor. It was confirmed the experience of all personnel and the in house training process, including the on the job training and records
2. A list of the equipment and tools used for the sling assembling. Calibration of all the applicable tools were verified and verified up to date.
3. Recording and reporting of information, including the customer complaints. All records were verified and found in accordance with the local management system manual.

On Completion of this audit it is recommended to issue a full type approval for the fabrication of sling sets.



Ramon Contreras
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