



GUNNEBO
LIFTING



Gunnebo-Anja Industrier AS

Form. nr. 4

Sert.nr / bestillingsnr.
Test certificate no

70340

Kunde nr
Customer no

203535

Kundenavn
Customer name

Swire Oilfield Services AS

Sertifikat for prøving og undersøkelse av kjetting, ringer, kroker, sjakler, svivler, blokker og andre løfteredskaper.
Certificate of Test and examination of Chains, Rings, Hooks, Shackles, Swivels, Pulley Blocks and such Gear.

(1) Material nr	(1) Kjenningsmerke/ Spormerke	(2) Angivelse av del som er prøvet	(3) Antall prøvet	(4) Prøve dato	(5) Anvendt prøvevekt	(6) Tillatt arbeids- belastning
Article no	Distinguishing number or mark	Description of gear	Number tested	Test date	Test load applied	Working load limit
856e A085628	 RVO-PIU	U.S.Fed.Spec.RR-C-271, Safety Pin Bow Shackles, Arctic, ref. 856. Grade 8. Must not be heat treated. 1 1/8" x 1 1/4" m/individuell merking 1 - 200	200	05.06.2009	19	9,5

(7) Navn og adresse til fabrikantene eller forhandlerne.
Name and adress of makers or suppliers.

Gunnebo-Anja AS

(8) Navn og adresse til den institusjon, firma eller person som utførte prøven
Name or adress of public, service, association, company or firm.

Gunnebo-Anja AS

(9) Undertegnendes stilling i ovennevnte institusjon, selskap eller firma.
Position of signatory of public service, association, company or firm.

Sakkyndig

Vi attesterer herved på vegne av dem som er nevnt under punkt 6 / 7 , at de ovennevnte oppgaver er riktige.
We hereby confirm on behalf of the abovementioned in 6 / 7 that the content of this Certificate is correct

DECLARATION OF CONFORMITY: We, GUNNEBO-ANJA INDUSTRIER AS, hereby declare that the above shackles meet all the relevant requirements of the Machinery Directive 89/392/EEC and the later amendments

Atle Sperboen

Lonevåg

08.06.2009

Audun Seiler



GUNNEBO
LIFTING

Cert no: RVO - PIU



Gunnebo-Anja Industrier AS

Inspection certificate Acc EN 10204 - 3.1

Identification	Bow	Bolt	
	RVO	PIU	
Safety factor	6,94	WLL	9,50 Ton

Object:	Anja Offshore Safety Bow Shackles No 856
Size:	1.1/8" x 1.1/4" (28x30mm)
Standard:	NS-EN 13889 / DnV Type Approval Certificate No S-2973

Requirements	DnV standard for certification of offshore containers No 2.7-1
Finish	All parts hot dip galvanized. Bolt and shackle eyes painted.
Material Quality	Killed / fine grain threaded Alloy Steel

TEST RESULTS

Item	Cast No	O Dia mm	Marking	Chemical Composition								A	R _e	R _m
				C	Si	Mn	P	S	Cr	Ni	Al	%	N/mm ²	N/mm ²
Bow	72889	38	RVO	0,21	0,19	1,07	0,010	0,017	0,45	0,45	0,027	18,0	826	894
Bolt	71583	32	PIU	0,20	0,22	1,09	0,007	0,007	0,45	0,44	0,034	19,0	830	881

Item		Charpy ISO-V - 40°C (Joule)	Breaking Load (KN)	Proof Test Load (KN)	Test Date	Remarks
Bow		130/136/141	660	190	05.06.09	
Bolt		180/150/160	660	190	05.06.09	

We hereby certify that the material described above has been manufactured and tested to apply with the specified requirements and sound industrial practise.

QA Manager

Audun Seilen

(Sign. / stamp)