

Project:

Certificate number: BBO8110086/1

Client: TSF NAVARRA DE TÉCNICAS DE SOLDADURA Y
FIJACIÓN S.L.

Office: BILBAO

This is to Certify that the
below described material TSF (ARAZURI, NAVARRA)
has been inspected at:

Date: 13/09/2011

Date of inspection:

First: 25/08/2011

Main order number:

Final: 25/08/2011

Order status: COMPLETE

General Certificate

MATERIAL	QUALITIES	DRAWINGS
PRELOAD SYSTEM SH M52	Head: 30CrNiMo8 Stud: 30CrNiMo8 Counternut: 30CrNiMo8 Washer: 30CrNiMo8 Piston: 45 NiCrMo4	"Tuerca SH4 M52" N°- rev.2 (10-08-2011) "Contratuerca M52" N°- rev.1 (15-04-2011) "Arandela M52" N°- rev.1 (18-03-2011) "Perno SH4 M52" N°- rev.1 (14-06-2011) "TSH4 M52 Threaded load cell tensioner" N°- rev.E (14/12/2010) "Conjunto M52" N°- rev.- fecha - "Base M52" N°- rev.- fecha - "Arandela M52" N°- rev.- fecha -

The above material has been subjected to the following tests and inspections according to the "Procedure for certification test plan SH PC 24.1" rev.1 June. 11 and the corresponding drawings provided by TSF, as detailed below:

- Review of material certificates
- Dimensional control of tested element
- Final visual inspection and absence of defects
- Witness of tests in SH M52 system by SH certification process PC 24.1 tests plan and review of the witnessed test report

During the inspection carry out it was found that the values of preload obtained during the assembly process were less than 20%. Likewise, these values had a variation of less than 5%. The test report and graphic has been attached to the Quality dossier.

As it could be seen, the inspection carried out and the reviewed documentation are considered satisfactory.

For the identification purpose the flanges and bolts used during the test were marked with hard label of this Society.



AITZIBER GORRIÑO-BEASKOA
Surveyor to Lloyd's Register España S.A.
A member of Lloyd's Register Group

Testing Data Sheets Attached Yes/No

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