

## Welder Approval Test Certificate

Cert - Nr. : 192/09

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DESIGNATION : EN 287-1:2004 141 PBW 8.1+10 PA,bs

Welding Procedure Specification Ref. No. : 191/09      Inspecting Authority : TUV HELLAS (TUV NORD) S.A.  
Order Nr. : 02.39.13

Welder's Name : Louise Dakur

Identification : 055183107

Method of Identification : IDENTITY CARD

Date and place of birth (if required) : %

Employer : MGT Ind. Ltd

Code / Testing Standard : EN 287-1:2004

Date of welding: 25/12/2008

Job Knowledge : Acceptable / not tested (delete as necessary)



|                            | Weld test details                               | Range of approval         |
|----------------------------|---|---------------------------|
| Welding process(es)        | 141(GTAW)                                       | 141(GTAW)                 |
| Plate or pipe              | PLATE   | P (PLATE),<br>PW,PFW, TFW |
| Joint type                 | BW  |                           |
| Parent metal group(s)      | ASTM A240 Gr. 316L                              | 8.1 ,9,2,9,3,10(EN 15609) |
| Filler metal type / size   | GTAW: ER316L 1.2 & 1.6 mm ,<br>AWS A 5.9 ER316L | 141                       |
| Gas (flow rate) / flux-    | Ar 99,99%, 10-14 lt/min.                        | similar type of inert gas |
| Material thickness [mm]    | t =10 mm  | From 3,0 to 20 mm         |
| Pipe outside diameter [mm] | NA  | ≥500 mm                   |
| Welding positions          | PA  | PA, PB                    |
| Auxiliaries                | %   | %                         |
| Weld details               | bs,ml   | bs,ss mb,ml               |

Additional information is available on the welding procedure specification No. : 191/09 and IKA 159-09 dated 20/1 2009 and RT report morex 71 lid 8305714/08

| Type of test                  | performed with acceptable results | not required |
|-------------------------------|-----------------------------------|--------------|
| Visual                        | X                                 | -            |
| Radiography                   | X                                 | -            |
| Magnetic particle/Penetrant   | -                                 | X            |
| Macro                         | X                                 | -            |
| Tensile                       | X                                 | -            |
| Fracture                      | -                                 | X            |
| Bend                          | X                                 | -            |
| Impact                        | -                                 | X            |
| Additional Tests (Hardness) * | -                                 | X            |

\* Append separate sheet if required  
ALL TEST RECORDS ATTACHED

**PROLONGATION FOR APPROVAL BY INSPECTING AUTHORITY**

| Date | Signature | Position or Title |
|------|-----------|-------------------|
|      |           |                   |

Name and Signature : H. Tsinor

Inspection Authority : TUV Hellas (TUV NORD) S.A.

Date of issue : 25/1/2009

Location : ATHENS

Validity of approval : 24/01/2011



**PROLONGATION FOR APPROVAL BY EMPLOYER/SUPERVISOR**

| Date | Signature | Position or Title |
|------|-----------|-------------------|
|      |           |                   |