

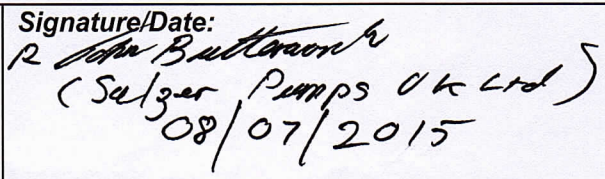


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|---|--|--|---|-----------------------------|----------------------------|
|  FORGE FEDRIGA s.r.l. ADVANCED FORGING SOLUTIONS | Qualification Test Record (QTR) NORSOK M-650 | | | | QTR. No.: QTR-F53002 |
| | | | | | Rev. No.: 0 |
| Manufacturer name/address/ Web page: | FORGE FEDRIGA s.r.l. Via dell'Artigianato, 13 25040 Cividate Camuno (BS) – Italy www.forgefedriga.com | | | | |
| Reference standard | NORSOK Standard M-650 Edition 4, September 2011 | | | | |
| Material designation and MDS No.: | ASTM A182M F53 MDS D54 Rev.5 | | | | |
| Manufacturing Summary doc. No.: | MS-F53002 | | | | Rev. No.: 0 |
| Products and manufacturing process(es): | OPEN DIE FORGINGS: - Solid forgings type | | | | |
| Mandatory conditions and sub-contractors: | - Heat treatment shall be performed in Forge Fedriga using the furnace n° F7 | | | | |
| Other information: | - Verification of the heat treatment procedure was performed on March 2012 (ref. to previous Q.T.R. n° QTR-F53001 Rev.1); - N.D.T. operations: ONLY IF AGREED IN ORDER; - PICKLING operation: ONLY IF AGREED IN ORDER. | | | | |
| Qualification expires: | 5 years after the date below indicated (Qualification expire date: 08/07/2020) | | | | |
| Tested and qualified thickness and weight | | | | | |
| Products and manufacturing process(es): | Test record No. | Tested thickness mm | Qualified thickness mm | Test piece weight kg | Qualified weight kg |
| Forged discs | Drawing n° I-15-0244-01A-PP | 190 | 0 - 190 | 600 | 0 - 5000 |
| Qualification/acceptance signatures | | | | | |
| Manufacturer: FORGE FEDRIGA s.r.l. | Prepared by/Date: Gazzoli Marco (01/07/2015) | Checked by/Date: Delvecchio Domenico (02/07/2015)  Technical Manager | | | |
| The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials. This acceptance does not exempt any purchaser from his responsibility to ensure that this qualification is valid for his products within the essential variables of NORSOK M-650. | | | | | |
| Qualified/Accepted by (company name /address): SULZER PUMPS (UK) Ltd Manor Mill Lane Leeds - West Yorkshire LS11 8BR - United Kingdom www.sulzer.com | | | Signature/Date:  (Sulzer Pumps UK Ltd) 08/07/2015 | | |