



1409

Sovereign works  
Deepdale Lane  
Lower Gornal  
Dudley  
West Midlands  
DY3 2AF

## TEST CERTIFICATE

Test Certificate No. 0812 / 5038

O/No.

Date Received

29.07.2012

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Tested/Reported

08.08.2012

### Item

- 1) 2 off stock bolts Reference : Norvill  
2) 2 off assembly bolts Reference : Andover Norton

### Full Size Tensile Test ISO 6892-1 2009

| Test piece dimensions<br>mm. | Area<br>mm <sup>2</sup> | Tensile Load<br>kNf | Tensile Strength<br>N/mm <sup>2</sup> | Tensile Strength<br>Tons/in <sup>2</sup> | Failure<br>location |
|------------------------------|-------------------------|---------------------|---------------------------------------|--|---------------------|
| 1-i) 8.10* Ø                 | 51.53                   | 60.7                | 1178                                  | 76.3                                     | B*                  |
| 1-ii) 8.19* Ø                | 52.68                   | 63.2                | 1200                                  | 77.0                                     | B*                  |
| 2-i) 8.13* Ø                 | 51.91                   | 54.9                | 1058                                  | 68.5                                     | B*                  |

\* Dimension at this point

### Hardness Test ISO 6508-1 : 2005

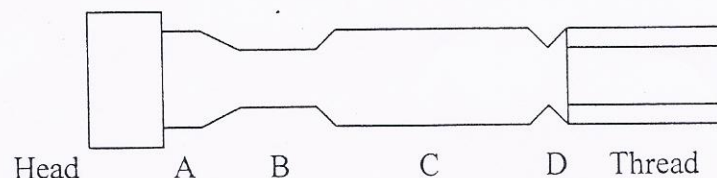
Rockwell C 150kgs

1-i) Average 3 values 35.1 HRC

1-ii) Average 3 values 35.6 HRC

2-i) Average 3 values 31.3 HRC

2-ii) Average 3 values 33.3 HRC



For and on behalf of CONFIDENTIAL CLIENT y Ltd

Martin C. Richards

(Quality Assurance Director)