

Confidential Technical Report NE4548



Date: 16th November 2007

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Project Number: HBP063

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LARYNGOSCOPE TESTING.

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For the attention of Graham Dodds.

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LARYNGOSCOPE TESTING.

1. INTRODUCTION.

Details of the samples received and the test requested are as follows:

1.1 Sample designations:

9 off Timesco Europa single use laryngoscopes, consisting of a metal clip on blade and polymeric battery holder / handle with black screw cap.

1 off as described above, but with different design of handle with a greater number of deeper vertical ribs and silver screw cap.

1.2 Date received:

19th October 2007

1.3 Testing requested:

Short Term Axial Loading

2. EXPERIMENTAL DETAILS.

A fixture was produced which would grip the handle of the device and could be attached to a tensile test machine. A second fixture was also designed to apply an upward vertical load to the centre of the blade simulating the service orientation (see photographs in the appendix to this report). A load of 30 N was applied and maintained for 5 minutes. During this time the interface between the threaded collar was inspected for any distortion or detachment. At the end of 5 minutes, the load was increased at a speed of 5 mm/min until failure occurred.

3. RESULTS.

| Sample No. | Proof Load, 30 N | Load at Failure (N) | Comments |
|------------|------------------|---------------------|-------------------------------------|
| 1 | OK, no damage | 291 | Blade detached, no damage to collar |
| 2 | OK, no damage | 266 | Blade detached, no damage to collar |
| 3 | OK, no damage | 273 | Blade detached, no damage to collar |
| 4 | OK, no damage | 238 | Blade detached, no damage to collar |
| 5 | OK, no damage | 266 | Blade detached, no damage to collar |
| 6 | OK, no damage | 270 | Blade detached, no damage to collar |
| 7 | OK, no damage | 252 | Collar detached |
| 8 | OK, no damage | 278 | Blade detached, no damage to collar |
| 9 | OK, no damage | 240 | Collar detached |
| 10 | OK, no damage | 272 | Blade detached, no damage to collar |

Note:

Sample 10 was the alternate design of device.

Date of test : 12th November 2007

Comments:

The two devices which had the threaded collar detach during the test were visually inspected. No cracking of the plastic handle was observed and there was little evidence of the presence of adhesive.

Appendix to CTR NE4548

Photographs to test fixture with laryngoscope fitted

