**History of targets**

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| --- | --- | --- | --- | --- | --- |
| Name | Location | Technology | Year | Actuations | Comments |
| T0 | ISIS | CS D/D | 2008 | 190K |  |
| Target tests | R78 | CS D/D | 2008 | 340K |  |
| T1 | ISIS | D/D | 2009 | 600K |  |
| T2.1 | R78 | D/D | 2009 | 1K | Failed |
| T2.2 | R78 | D/D | 2009 | 80K | Failed |
| T2.3 | R78 | D/V | 2010 | 2.1M | Unacceptable dust |
| T2.4 | R78 | D/V | 2011 | 1M, | OK weekly stops |
| T2.5 | R78 | D/V | 2011 | 4M | OK weekly stops |
| T2.6 | R78 | D/V | 2011 | 1.1M | OK |
| T2.7 | R78 | D/V | 2011 | 1.3M | OK |
| T2.8 | R78 | D/V | 2011 | 2.5M | OK |
| T2.9 | ISIS | D/V | 2011 | 580K + | Installed |
| T1.1 | R78 | D/V | 2012 | 3.2M | OK |
| T1.2 | R78 | Ti/V | 2012 | 2M | Small amount dark dust – Ti |
| T1.3 | R78 | Ti/V | 2012 | 5M | Small amount dark dust – Ti |
| T1.4 | R78 | D/V | 2012 | 50K | OK (Spare) |
| S1.1 | R78 | D/V | 2012 | 1M | Poor Performance, small dust |
| S1.1r2 | R78 | D/V | 2012 | 70K | Recycled bearings, Rapid failure |
| S1.2 | R78 | D/V | 2012 | 3.1M | OK |
| S1.3 | R78 | D/V | 2013 | 1.8M | OK |
| S1.4 | R78 | D/V | 2013 | 10M | OK |
| S1.5 | R78 | D/V | 2014 | 700K | Poor Performance |
| S1.6 | R78 | D/V | 2014 | 900K | Poor Performance |
| S1.7 | R78 | D/V | 2014 | 1.5M | Controller Misconfiguration |
| S1.8 | R78 | D/V | 2014 | 9.3M | OK. |

Notes:

CS D/D – Cross shaped shaft, DLC/DLC bearings.

D/D – Current shaft design (with flats), DLC/DLC bearings.

D/V – Current shaft design. DLC shaft, VESPEL fixed bearings.