

NAR OFFICIAL CERTIFICATION LABORATORY

HIGH POWER ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AMW K800

Effective Dates: NAR Certification: 4/1/04

Certified Total Impulse (N-Sec): 1950

Delay Times: Plugged

Propellant Type: Blue Baboon

Propellant Mass (GM): 914

Casing Diameter (MM): 54

Casing Length (MM): 492

----- STATIC TEST DATA -----

Number Tested: 3

Casing Date Codes: None

Date Tested: 3/27/04

Test Temp (°c): 17

Elevation (FT): 200

Total Impulse (N-Sec): 1932.58

std. deviation: 18.88

Peak Thrust (Newtons): 955.09

std. deviation: 9.76

Burn Time (Seconds): 2.38

std. deviation: 0.08

Casing Burnt Mass (GM): 869.6

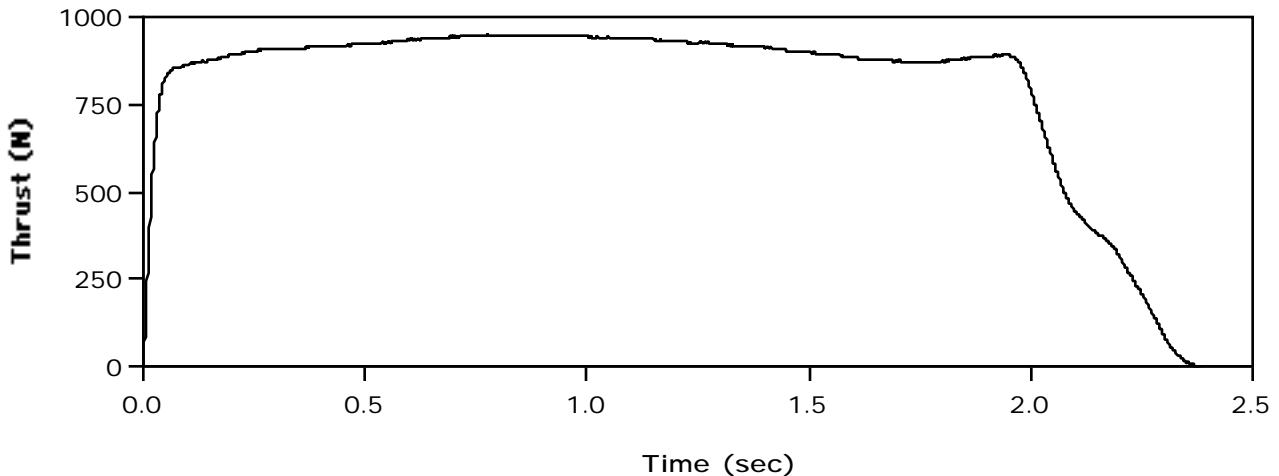
Max Casing External Temp (°c): under 200

Delay Time (sec)	Plugged
Initial Mass (gm)	1786.6
Avg. Measured Delay	None

Remarks:

Uses the 54-1750 motor case

Typical Thrust - Time Curve:



John Kane
NAR S&T Committee Chairman

; AMW K800 RASP.ENG file made from NAR published data
 ; File produced April 19, 2004
 ; The total impulse, peak thrust, average thrust and burn time are
 ; the same as the averaged static test data on the NAR web site in
 ; the certification file. The curve drawn with these data points is as
 ; close to the certification curve as can be with such a limited
 ; number of points (32) allowed with wRASP up to v1.6.

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K800 54 492 P .9140 1.7866 AMW
0.017 516.316
0.035 745.845
0.046 817.592
0.090 860.560
0.191 889.338
0.270 908.424
0.438 918.017
0.689 945.892
0.996 955.090
1.325 922.713
1.557 894.035
1.726 874.949
1.849 884.542
1.920 894.035
1.954 894.035
1.984 855.863
2.011 741.048
2.049 592.859
2.079 492.433
2.113 430.280
2.154 377.719
2.196 329.854
2.237 243.818
2.275 152.986
2.309 71.716
2.339 33.465
2.380 0.000
  
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