

NAR OFFICIAL CERTIFICATION LABORATORY

HIGH POWER ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AMW L900

Effective Dates: NAR Certification: 4/1/04

Certified Total Impulse (N-Sec): 3450

Delay Times: Plugged

Propellant Type: Red Rhino

Propellant Mass (GM): 1771

Casing Diameter (MM): 75

Casing Length (MM): 497

----- 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): 3440.91

std. deviation: 7.50

Peak Thrust (Newtons): 1173.56

std. deviation: 15.83

Burn Time (Seconds): 3.79

std. deviation: 0.05

Casing Burnt Mass (GM): 1819.8

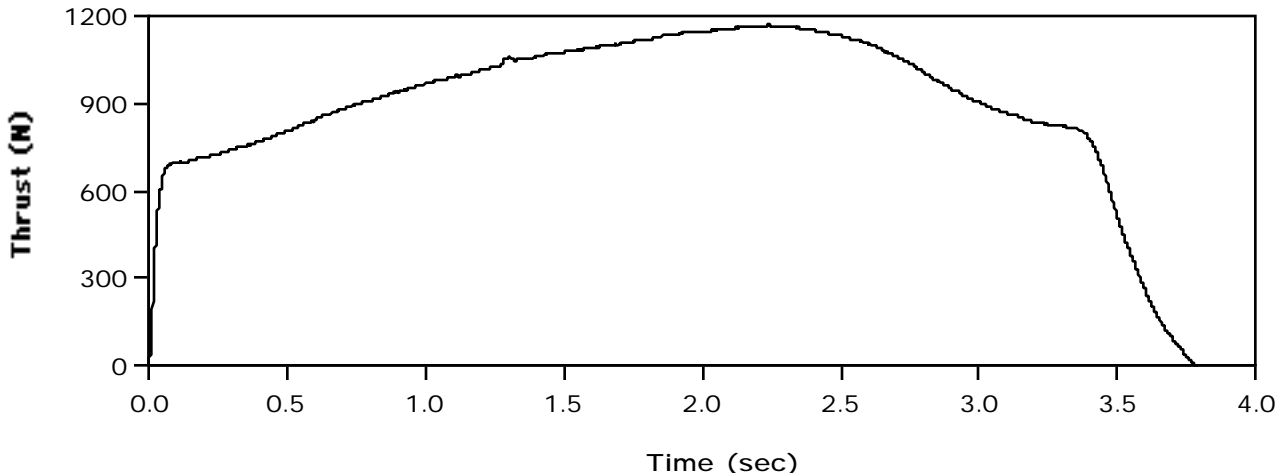
Max Casing External Temp (°c): under 200

Delay Time (sec)	Plugged
Initial Mass (gm)	3588.8
Avg. Measured Delay	None

Remarks:

Uses the 75-3500 motor case

Typical Thrust - Time Curve:



John Kane
NAR S&T Committee Chairman

; AMW L900 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.

L900	75	497	P	1.771	3.5888	AMW
0.029	464.292					
0.053	630.937					
0.059	684.506					
0.096	702.328					
0.133	696.387					
0.201	714.311					
0.486	803.524					
0.777	910.661					
1.099	988.093					
1.260	1041.158					
1.284	1071.366					
1.378	1053.241					
1.607	1101.573					
1.917	1142.857					
2.208	1173.560					
2.413	1160.982					
2.624	1107.615					
2.866	976.211					
3.053	886.897					
3.208	839.270					
3.314	827.388					
3.382	809.465					
3.432	720.252					
3.495	547.564					
3.570	345.273					
3.627	214.273					
3.714	77.382					
3.790	0.000					

