

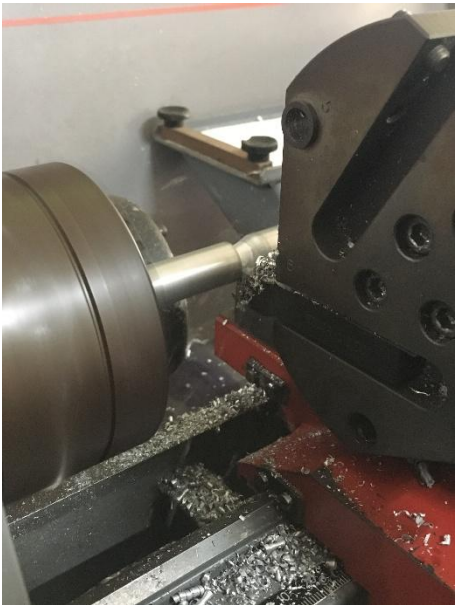
LAMPIRAN

1. Proses *Squeeze casting*





1. Proses pembuatan spesimen



2. Poses perlakuan panas T6



3. Uji Tarik

LABORATORIUM MATERIAL JURUSAN TEKNIK MESIN FT UNS
 Jl. Ir. Sutami no.36 A Surakarta, Jawa Tengah

TEST REPORT

Test NO. : *Sebelum TG.* Test Description :

Speciment	Area mm ²	Max Force N	Tensile Strenght N/mm ²	Yield Load N	Yield Strenght N/mm ²	Break Force N	Elong. %
<i>80/450</i>		<i>3522.23</i>					

Q.C. Dept. : Maruto Tester :

PENGUJIAN - ANALISA MATERIAL
 Laboratorium Material
 Jurusan Teknik Mesin
 Fakultas Teknik - UNS

LABORATORIUM MATERIAL JURUSAN TEKNIK MESIN FT UNS

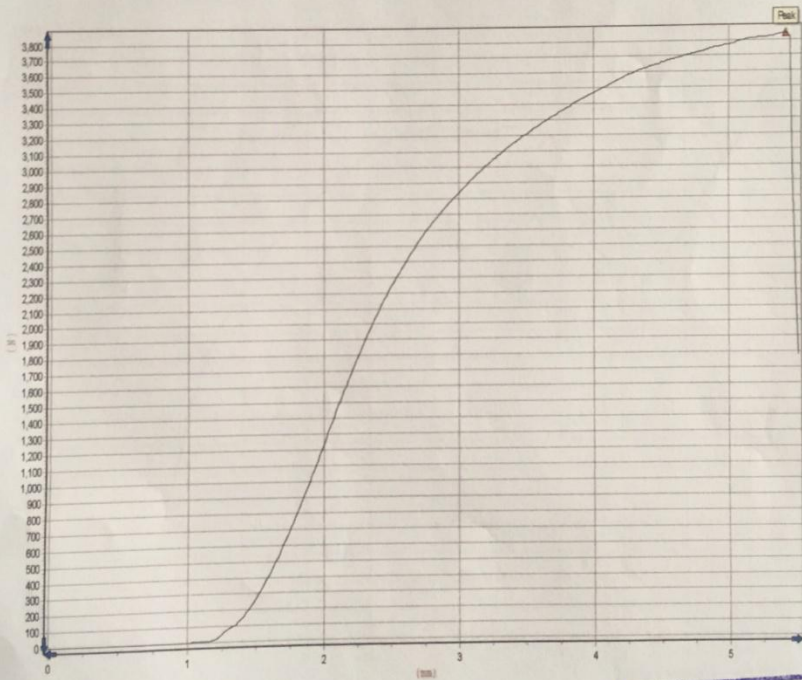
Jl. Ir. Sutami no.36 A Surakarta, Jawa Tengah

TEST REPORT

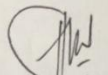
Test NO. :

Test Description :

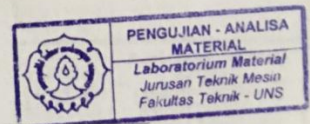
Speciment	Area mm ²	Max Force N	Tensile Strenght N/mm ²	Yield Load N	Yield Strenght N/mm ²	Break Force N	Elong. %
80/500		3843.60					



Q.C. Dept. :


Maruto

Tester :



LABORATORIUM MATERIAL JURUSAN TEKNIK MESIN FT UNS

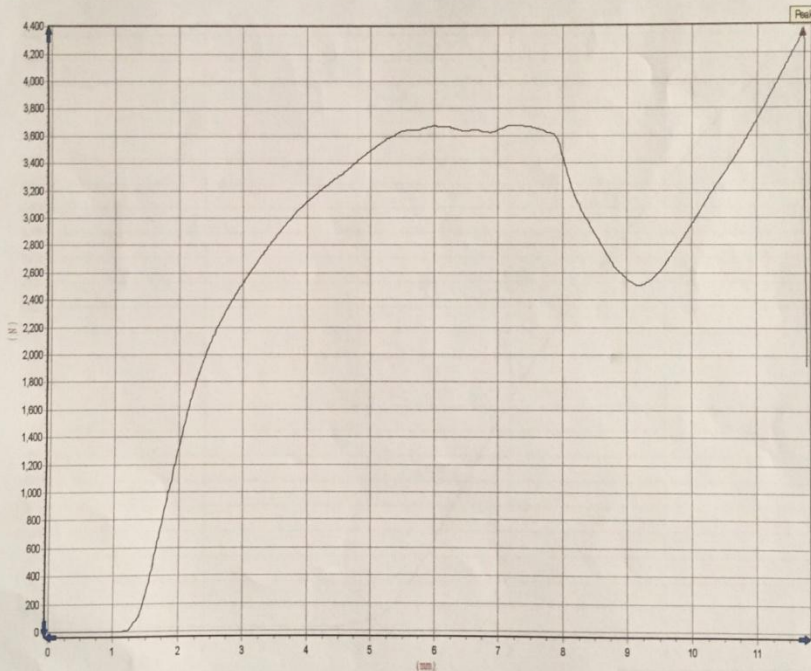
Jl. Ir. Sutami no.36 A Surakarta, Jawa Tengah

TEST REPORT

Test NO. :

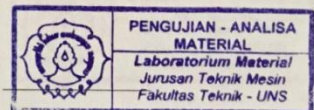
Test Description :

Speciment	Area mm ²	Max Force N	Tensile Strenght N/mm ²	Yield Load N	Yield Strenght N/mm ²	Break Force N	Elong. %
80 / S50		4347.69					



Q.C. Dept. :

Tester :



LABORATORIUM MATERIAL JURUSAN TEKNIK MESIN FT UNS

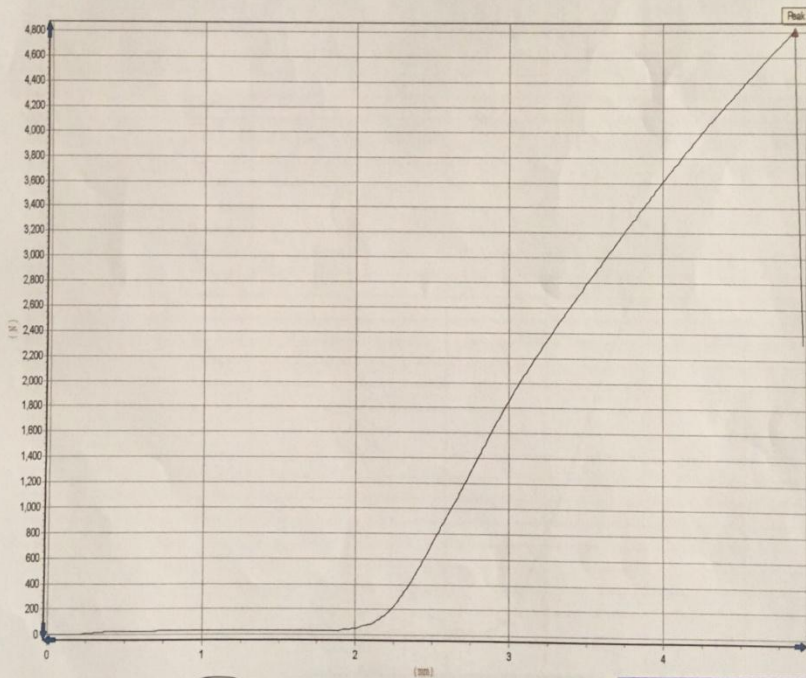
Jl. Ir. Sutami no.36 A Surakarta, Jawa Tengah

TEST REPORT

Test NO. :

Test Description :

Speciment	Area mm ²	Max Force N	Tensile Strenght N/mm ²	Yield Load N	Yield Strenght N/mm ²	Break Force N	Elong. %
90/450		4810.90					



Q.C. Dept. : Maruto

Tester :



LABORATORIUM MATERIAL JURUSAN TEKNIK MESIN FT UNS

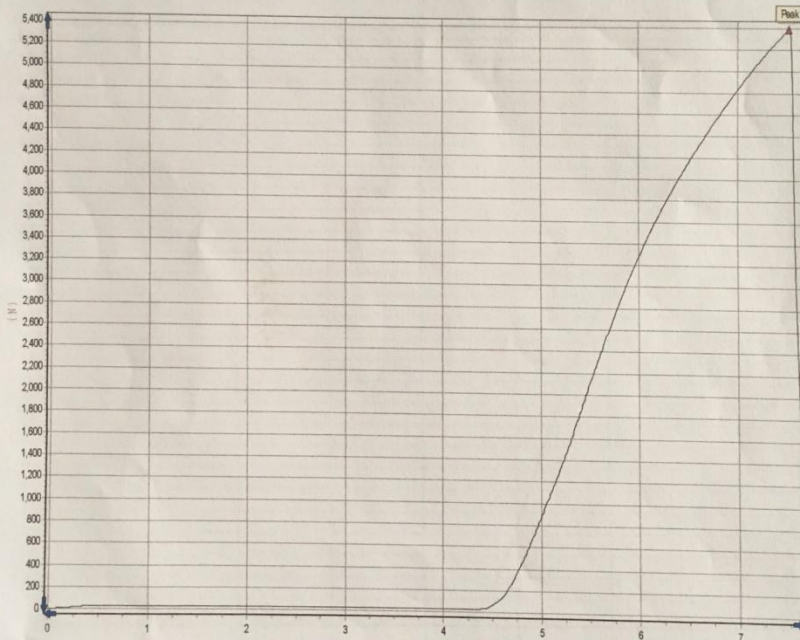
Jl. Ir. Sutami no.36 A Surakarta, Jawa Tengah

TEST REPORT

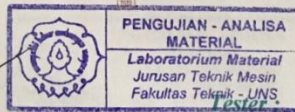
Test NO. :

Test Description :

Speciment	Area mm ²	Max Force N	Tensile Strenght N/mm ²	Yield Load N	Yield Strenght N/mm ²	Break Force N	Elong. %
Ø 1500		5387.15					



Q.C. Dept. :



LABORATORIUM MATERIAL JURUSAN TEKNIK MESIN FT UNS

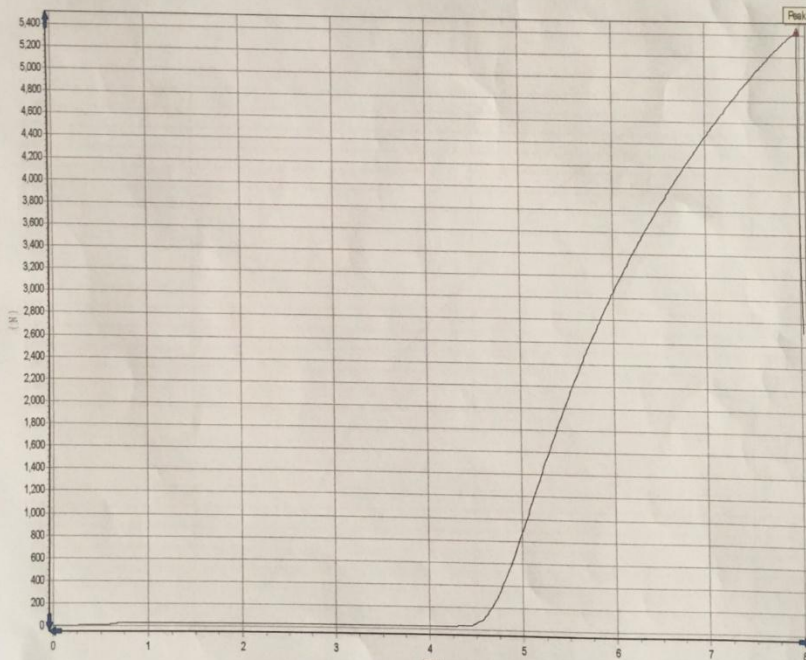
Jl. Ir. Sutami no.36 A Surakarta, Jawa Tengah

TEST REPORT

Test NO. :

Test Description :

Speciment	Area mm ²	Max Force N	Tensile Strenght N/mm ²	Yield Load N	Yield Strenght N/mm ²	Break Force N	Elong. %
90/550		5436.21					



Q.C. Dept. :



LABORATORIUM MATERIAL JURUSAN TEKNIK MESIN FT UNS

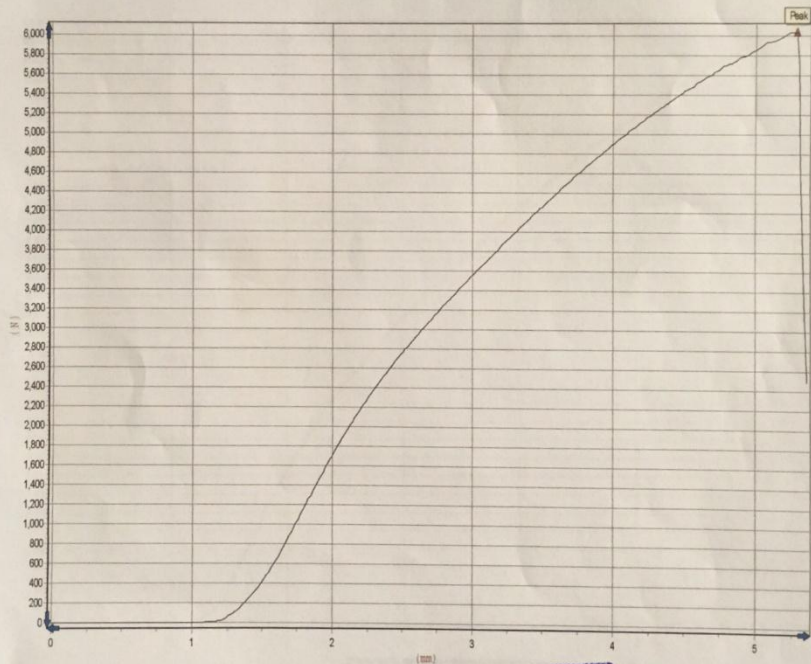
Jl. Ir. Sutami no.36 A Surakarta, Jawa Tengah

TEST REPORT

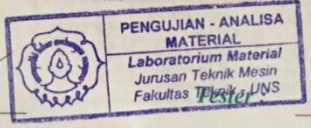
Test NO. :

Test Description :

Speciment	Area mm ²	Max Force N	Tensile Strenght N/mm ²	Yield Load N	Yield Strenght N/mm ²	Break Force N	Elong. %
100 / 450		6043.75					



Q.C. Dept. :



LABORATORIUM MATERIAL JURUSAN TEKNIK MESIN FT UNS

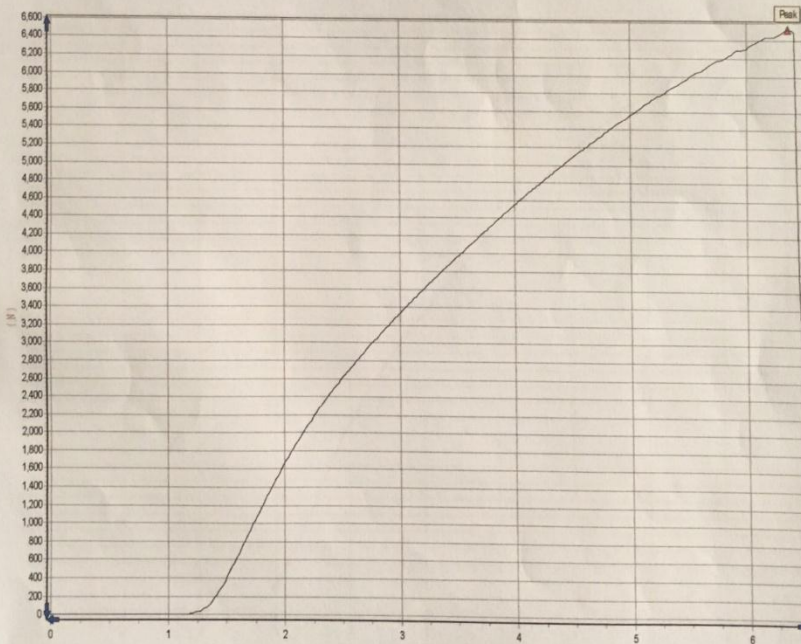
Jl. Ir. Sutami no.36 A Surakarta, Jawa Tengah

TEST REPORT

Test NO. :

Test Description :

Speciment	Area mm ²	Max Force N	Tensile Strenght N/mm ²	Yield Load N	Yield Strenght N/mm ²	Break Force N	Elong. %
100 / 500		6530.42					



Q.C. Dept. :



LABORATORIUM MATERIAL JURUSAN TEKNIK MESIN FT UNS

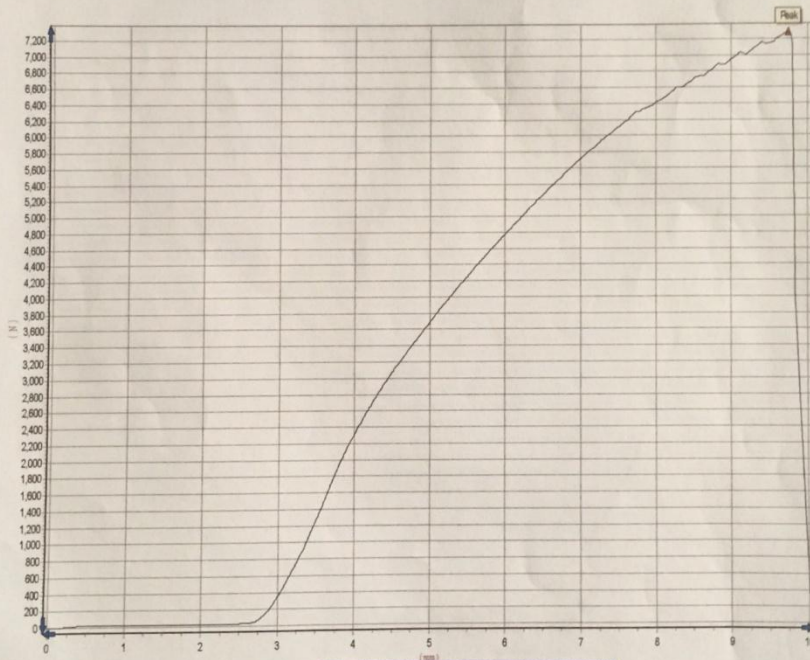
Jl. Ir. Sutami no.36 A Surakarta, Jawa Tengah

TEST REPORT

Test NO. :

Test Description :

Speciment	Area mm ²	Max Force N	Tensile Strenght N/mm ²	Yield Load N	Yield Strenght N/mm ²	Break Force N	Elong. %
100 / 550		7286.20					



Q.C. Dept. :



LABORATORIUM MATERIAL JURUSAN TEKNIK MESIN FT UNS

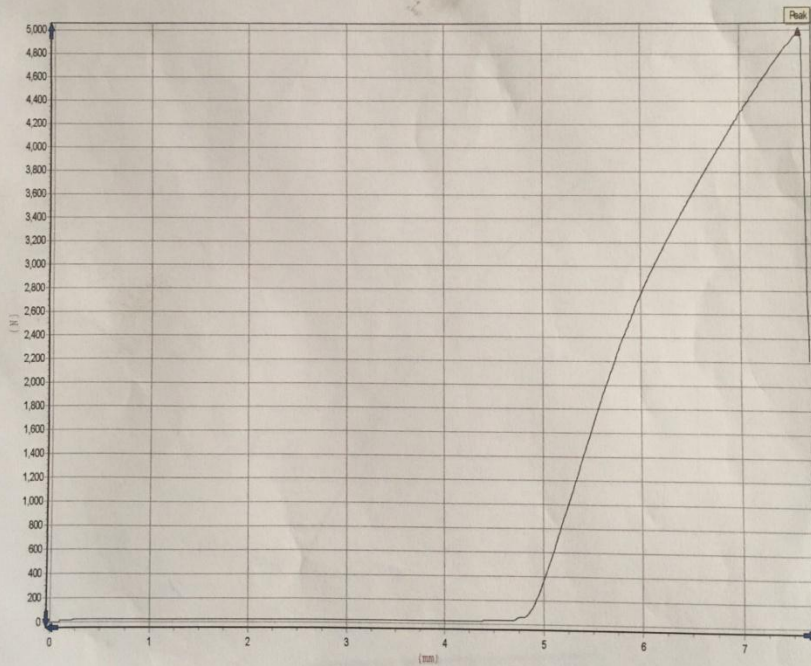
Jl. Ir. Sutami no.36 A Surakarta, Jawa Tengah

TEST REPORT

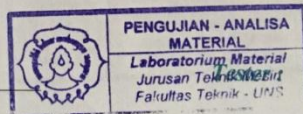
Test NO. : *Sesudah T6*

Test Description :

Speciment	Area mm ²	Max Force N	Tensile Strenght N/mm ²	Yield Load N	Yield Strenght N/mm ²	Break Force N	Elong. %
<i>80/450</i>		<i>4993.98</i>					



Q.C. Dept. :



LABORATORIUM MATERIAL JURUSAN TEKNIK MESIN FT UNS

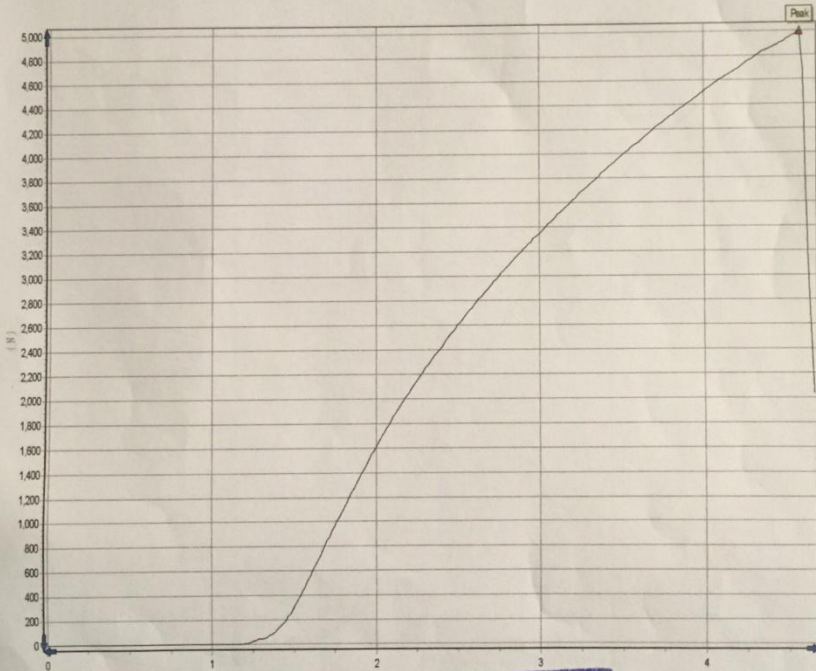
Jl. Ir. Sutami no.36 A Surakarta, Jawa Tengah

TEST REPORT

Test NO. :

Test Description :

Speciment	Area mm ²	Max Force N	Tensile Strenght N/mm ²	Yield Load N	Yield Strenght N/mm ²	Break Force N	Elong. %
80 / 500		5002.86					



Q.C. Dept. :



Tester :

LABORATORIUM MATERIAL JURUSAN TEKNIK MESIN FT UNS

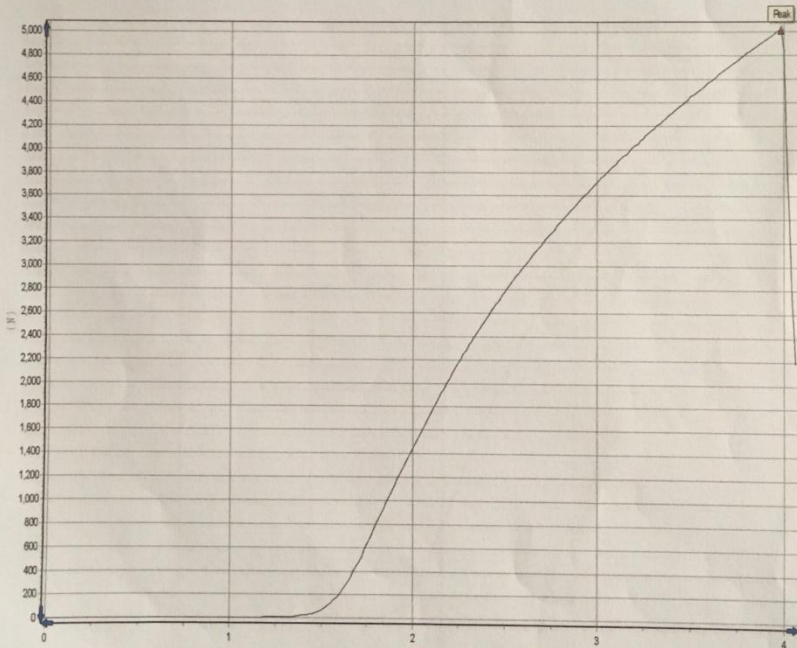
Jl. Ir. Sutami no.36 A Surakarta, Jawa Tengah

TEST REPORT

Test NO. :

Test Description :

Speciment	Area mm ²	Max Force N	Tensile Strenght N/mm ²	Yield Load N	Yield Strenght N/mm ²	Break Force N	Elong. %
80 / 550		5020.64					



Q.C. Dept. :



LABORATORIUM MATERIAL JURUSAN TEKNIK MESIN FT UNS

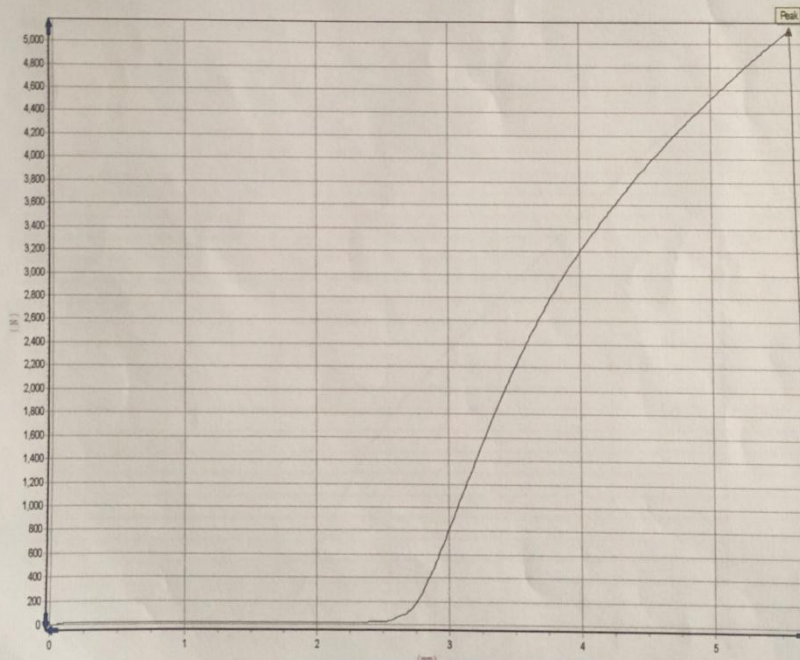
Jl. Ir. Sutami no.36 A Surakarta, Jawa Tengah

TEST REPORT

Test NO. :

Test Description :

Speciment	Area mm ²	Max Force N	Tensile Strenght N/mm ²	Yield Load N	Yield Strenght N/mm ²	Break Force N	Elong. %
90/450		5117.33					



Q.C. Dept. :



LABORATORIUM MATERIAL JURUSAN TEKNIK MESIN FT UNS

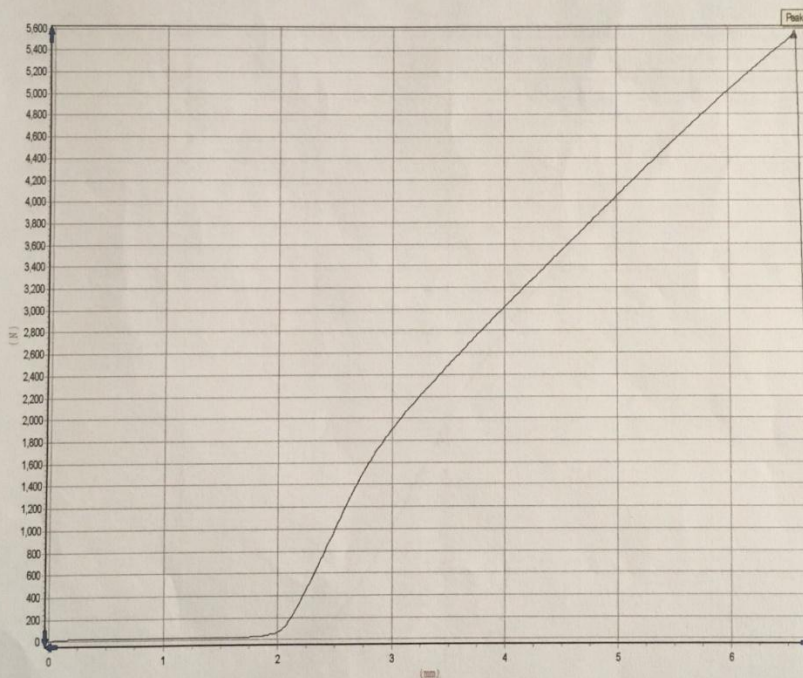
Jl. Ir. Sutami no.36 A Surakarta, Jawa Tengah

TEST REPORT

Test NO. :

Test Description :

Speciment	Area mm ²	Max Force N	Tensile Strenght N/mm ²	Yield Load N	Yield Strenght N/mm ²	Break Force N	Elong. %
90 / 500		5547.48					



Q.C. Dept. :

Marato

Tester :



LABORATORIUM MATERIAL JURUSAN TEKNIK MESIN FT UNS

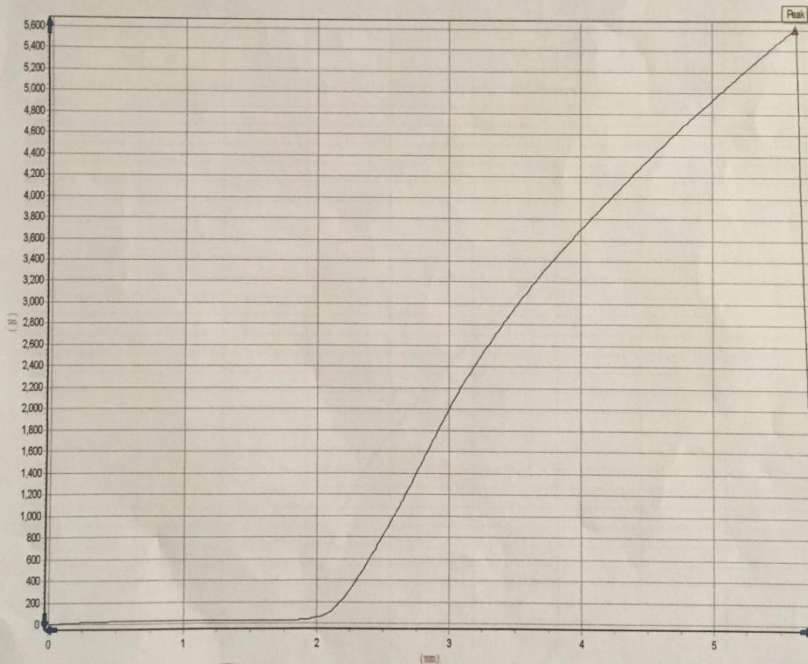
Jl. Ir. Sutami no.36 A Surakarta, Jawa Tengah

TEST REPORT

Test NO. :

Test Description :

Speciment	Area mm ²	Max Force N	Tensile Strenght N/mm ²	Yield Load N	Yield Strenght N/mm ²	Break Force N	Elong. %
90/550		5606.85					



Q.C. Dept. :

Maruta

Tester :



LABORATORIUM MATERIAL JURUSAN TEKNIK MESIN FT UNS

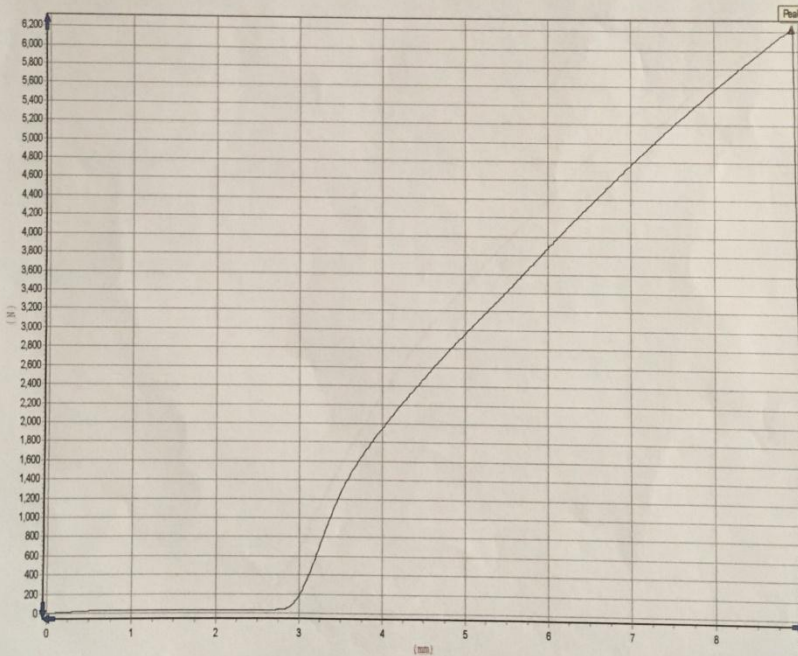
Jl. Ir. Sutami no.36 A Surakarta, Jawa Tengah

TEST REPORT

Test NO. :

Test Description :

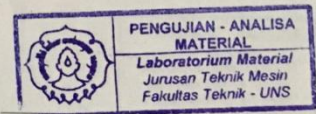
Speciment	Area mm ²	Max Force N	Tensile Strenght N/mm ²	Yield Load N	Yield Strenght N/mm ²	Break Force N	Elong. %
100/450		6233.94					



Q.C. Dept. :

Maruto

Tester :



LABORATORIUM MATERIAL JURUSAN TEKNIK MESIN FT UNS

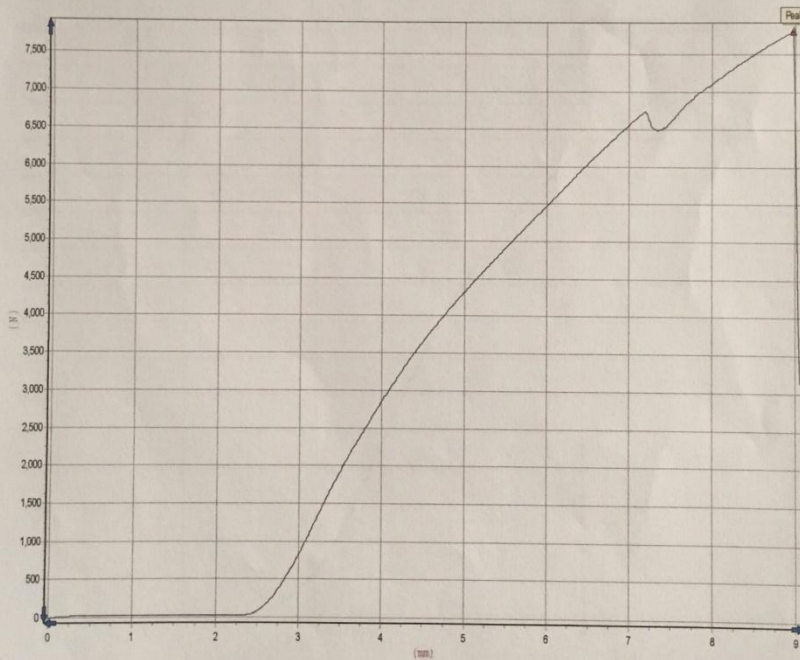
Jl. Ir. Sutami no.36 A Surakarta, Jawa Tengah

TEST REPORT

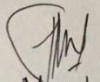
Test NO. :

Test Description :

Speciment	Area mm ²	Max Force N	Tensile Strenght N/mm ²	Yield Load N	Yield Strenght N/mm ²	Break Force N	Elong. %
100 / 500		7819.44					



Q.C. Dept. :


Maruto

Tester :



LABORATORIUM MATERIAL JURUSAN TEKNIK MESIN FT UNS

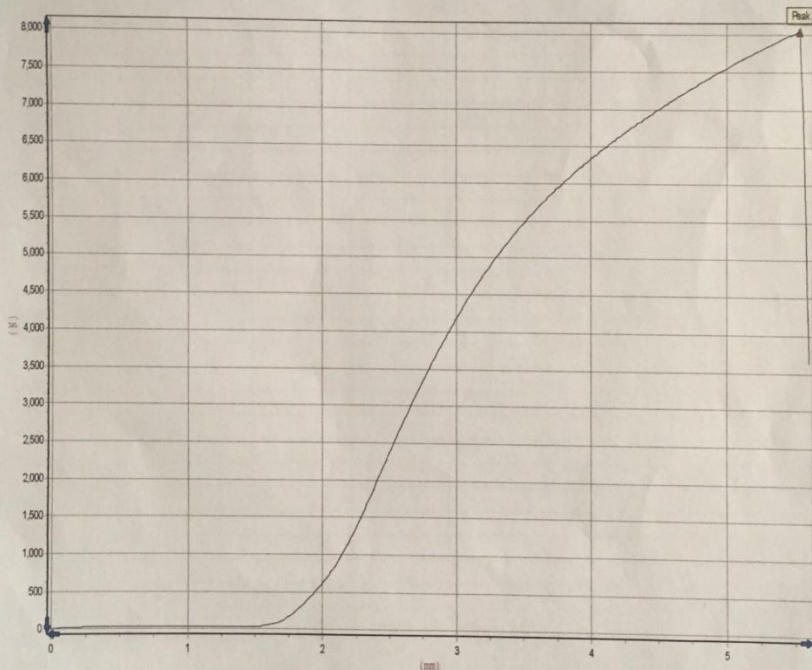
Jl. Ir. Sutami no.36 A Surakarta, Jawa Tengah

TEST REPORT

Test NO. :

Test Description :

Speciment	Area mm ²	Max Force N	Tensile Strenght N/mm ²	Yield Load N	Yield Strenght N/mm ²	Break Force N	Elong. %
100 / 550		8045.53					



Q.C. Dept. : Maruto

Tester :



LABORATORIUM METALURGI
DEPARTEMEN TEKNIK MATERIAL DAN METALURGI FTI – ITS
Jalan Raya ITS, Sukolilo, Surabaya - 60111

Test Report

Test NO : *Fatigue Dynamics, Inc*
Model : *RBF200*

No	Spesimen	Tegangan (Psi)	Umur Lelah (Cycle)	Keterangan
1	A1	10152,64	12065	Patah
2	A2	7106,85	16503	Patah
3	A3	10442,71	15032	Patah
4	B1	11312,94	20365	Patah
5	B2	14358,73	21254	Patah
6	B3	10152,64	24275	Patah
7	C1	10442,71	27361	Patah
8	C2	9282,41	29265	Patah
9	C3	10877,83	30450	Patah

Q.C. Dept



Tester



