

LAMPIRAN

Lampiran 1. Kartu Bimbingan Laporan TA



KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI

UNIVERSITAS NEGERI YOGYAKARTA

FAKULTAS TEKNIK

PROGRAM STUDI TEKNIK OTOMOTIF D3

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FORMULIR BIMBINGAN PROYEK AKHIR

Nama Mahasiswa : Wahab Al Srofi Hidayat

Dosen Pembimbing : Drs. Moch Solikin, M. Kes.

NIM : 16509134047

Program Studi : Teknik Otomotif D3

Judul Laporan PI : Membuat Instalasi Exhaust Blower Untuk Mengatasi Gas Buang Pada Engine Stand Di Bengkel Otomotif FT UNY

| No | Hari / Tanggal | Materi Bimbingan | Catatan Dosen / Pembimbing | Tanda Tangan Pembimbing |
|----|----------------|------------------|----------------------------|-------------------------|
| 1. | 14/5/2019 | P. Judul | Perbaikan judul | # |
| 2. | 20/5/2019 | Review bab I | Memperbaiki bab II | # |
| 3. | 26/5/2019 | Perbaikan bab II | Revisi | # |
| 4. | 17/6/2019 | Review bab II | Memperbaiki bab III | # |
| 5. | 24/6/2019 | Bab V | Review bab III | # |
| 6. | 2/7/2019 | Lampiran Upi | Melengkapi bab Upi | # |
| 7. | 11/7/2019 | Keppapi | Siap ujian | # |

Mengetahui,


Yogyakarta, Juli 2019

Ketua Prodi Teknik Otomotif D3,

Mahasiswa,


Drs. Moch. Solikin, M. Kes

NIP.196680404199303 1 001


Wahab Al Srofi Hidayat

NIM. 16509134047

Lampiran 2. Kartu Bimbingan Bebas Revisi



KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI
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BUKTI SELESAI REVISI PROYEK AKHIR D3/S1

Nama Mahasiswa : Wahab Al Srofi Hidayat
No. Mahasiswa : 16509134047
Judul PA D3/S1 : Instalasi *Exhaust Blower* Untuk Mengatasi
Gas Buang Pada *Engine Stand* Di Bengkel Otomotif FT
UNY
Dosen Pembimbing : Drs. Moch. Solikin, M.Kes

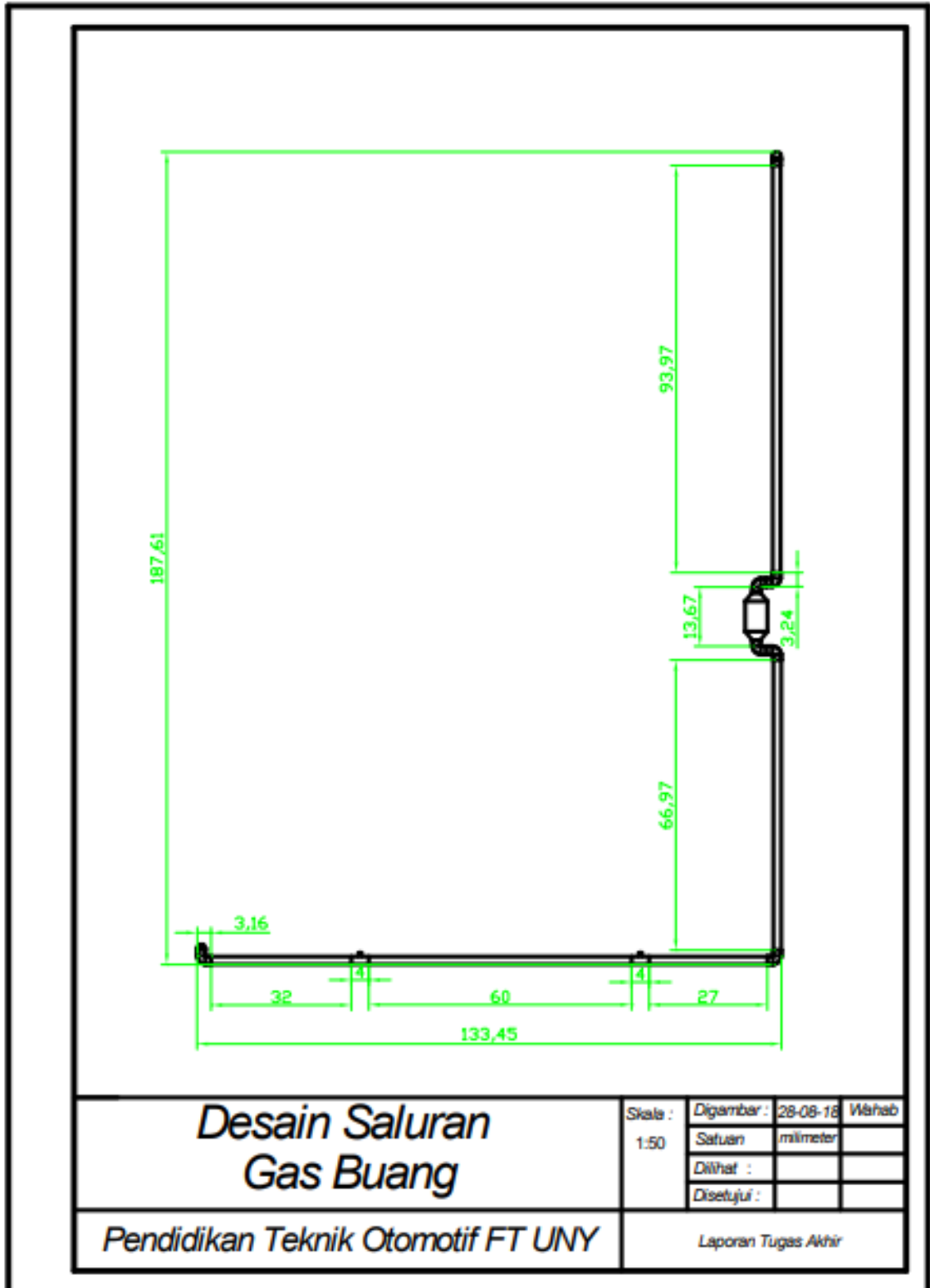
Dengan ini saya menyatakan Mahasiswa tersebut telah selesai revisi.

| No | Nama | Jabatan | Paraf | Tanggal |
|----|-------------------------------|-----------------------|-------|------------|
| 1 | Drs. Moch. Solikin, M.Kes | Ketua Penguji | | 26/07/2019 |
| 2 | Dr. Ir. Zainal Arifin, M.T | Sekretaris Penguji | | 26.07.2019 |
| 3 | Martubi, M.Pd., M.T | Penguji Utama | | 26/7/2019 |

Keterangan :

1. Arsip Jurusan
2. Kartu wajib dilampirkan dalam laporan Proyek Akhir D3/S1

Lampiran 3. Desain AutoCAD



*Desain Saluran
Gas Buang*

Pendidikan Teknik Otomotif FT UNY

| | | | |
|---------|-------------|-----------|-------|
| Skala : | Digambar : | 28-08-18 | Wahab |
| 1:50 | Satuan | milimeter | |
| | Dilihat : | | |
| | Disetujui : | | |

Laporan Tugas Akhir

Lampiran 2. Hasil Pengujian Gas Buang Tanpa Menggunakan Saluran *Exhaust Blower*

Lampiran 5. Hasil pengujian Gas buang Tanpa Menggunakan Exhaust blower

EXHAUST GAS ANALYSIS

Serial nr. 1711960

TECNOTEST
TYPE STARGAS 898
DIAL CLASS 0
REPORT N.
545/DIAL/04/RM
10/07/2004

R P M 0 [1/min]
C O 0.188 [% vol]
C O 2 0.35 [% vol]
H C 73 [ppm vol]
O 2 20.14 [% vol]
N O ---- [ppm vol]
CO cor ---- [% vol]
λ ---- [-]
TEMP. --- [°C]

ENVIRONMENT CONDITIONS

Temperature 32 [°C]
Pressure 991 [hPa]
Rel. Humidity 49 [ZHR]
DATE: 16/07/2019
TIME : 14:53

CAR DATA

FUEL: GASOLINE
BRAND:
Z
MODEL:
LIC. PLATE:
CHASSIS:
Km:

WORKSHOP

WUTOMOTIF
AFT-UNY
KLASSKUOTO
A
A
A
EXAMINER :

EXHAUST GAS ANALYSIS

Serial nr. 1711960

TECNOTEST
TYPE STARGAS 898
DIAL CLASS 0
REPORT N.
545/DIAL/04/RM
10/07/2004

R P M 0 [1/min]
C O 0.098 [% vol]
C O 2 0.39 [% vol]
H C 154 [ppm vol]
O 2 20.02 [% vol]
N O ---- [ppm vol]
CO cor ---- [% vol]
λ ---- [-]
TEMP. --- [°C]

ENVIRONMENT CONDITIONS

Temperature 32 [°C]
Pressure 990 [hPa]
Rel. Humidity 49 [ZHR]
DATE: 16/07/2019
TIME : 15:02

CAR DATA

FUEL: GASOLINE
BRAND:
MODEL:
LIC. PLATE:
CHASSIS:
Km:

WORKSHOP

WUTOMOTIF
AFT-UNY
KLASSKUOTO
A
A
A
EXAMINER :

EXHAUST GAS ANALYSIS

Serial nr. 1711960

TECNOTEST
TYPE STARGAS 898
DIAL CLASS 0
REPORT N.
545/DIAL/04/RM
10/07/2004

R P M 0 [1/min]
C O 0.089 [% vol]
C O 2 0.55 [% vol]
H C 403 [ppm vol]
O 2 19.00 [% vol]
N O ---- [ppm vol]
CO cor ---- [% vol]
λ ---- [-]
TEMP. --- [°C]

ENVIRONMENT CONDITIONS

Temperature 31 [°C]
Pressure 990 [hPa]
Rel. Humidity 50 [ZHR]
DATE: 16/07/2019
TIME : 15:12

CAR DATA

FUEL: GASOLINE
BRAND:
MODEL:
LIC. PLATE:
CHASSIS:
Km:

WORKSHOP

WUTOMOTIF
AFT-UNY
KLASSKUOTO
A
A
A
EXAMINER :

Lampiran 3. Hasil Pengujian Gas Buang Menggunakan Saluran *Exhaust Blower*

Lampiran 5. Hasil pengujian Gas buang Menggunakan Exhaust blower

EXHAUST GAS ANALYSIS

Serial nr. 1711960

TECNOTEST
TYPE STARGAS 898
DIAL CLASS 0
REPORT N
545/DIAL/04/RM
10/07/2004

R P M 0 [1/min]
C O 0.001 [Z vol]
C O 2 0.00 [Z vol]
H C 7 [ppm vol]
O 2 20.69 [Z vol]
N O ---- [ppm vol]
CO cor ---- [Z vol]
X ---- [-]
TEMP. --- [°C]

ENVIRONMENT CONDITIONS

Temperature 31 [°C]
Pressure 990 [hPa]
Rel. Humidity 49 [ZHR]
DATE: 16/07/2019
TIME : 14:27

CAR DATA

FUEL: GASOLINE
BRAND:
MODEL:
LIC. PLATE:
CHASSIS:
Km:

WORKSHOP

WUTOMOTIF
AFT-UNY
KLASSCKUOTO
A
AA
A

EXAMINER :

EXHAUST GAS ANALYSIS

Serial nr. 1711960

TECNOTEST
TYPE STARGAS 898
DIAL CLASS 0
REPORT N
545/DIAL/04/RM
10/07/2004

R P M 0 [1/min]
C O 0.000 [Z vol]
C O 2 0.00 [Z vol]
H C 9 [ppm vol]
O 2 20.86 [Z vol]
N O ---- [ppm vol]
CO cor ---- [Z vol]
X ---- [-]
TEMP. --- [°C]

ENVIRONMENT CONDITIONS

Temperature 31 [°C]
Pressure 990 [hPa]
Rel. Humidity 49 [ZHR]
DATE: 16/07/2019
TIME : 14:33

CAR DATA

FUEL: GASOLINE
BRAND:
MODEL:
LIC. PLATE:
CHASSIS:
Km:

WORKSHOP

WUTOMOTIF
AFT-UNY
KLASSCKUOTO
A
AA
A

EXAMINER :

EXHAUST GAS ANALYSIS

Serial nr. 1711960

TECNOTEST
TYPE STARGAS 898
DIAL CLASS 0
REPORT N
545/DIAL/04/RM
10/07/2004

R P M 0 [1/min]
C O 0.000 [Z vol]
C O 2 0.00 [Z vol]
H C 4 [ppm vol]
O 2 20.83 [Z vol]
N O ---- [ppm vol]
CO cor ---- [Z vol]
X ---- [-]
TEMP. --- [°C]

ENVIRONMENT CONDITIONS

Temperature 31 [°C]
Pressure 990 [hPa]
Rel. Humidity 49 [ZHR]
DATE: 16/07/2019
TIME : 14:44

CAR DATA

FUEL: GASOLINE
BRAND:
MODEL:
LIC. PLATE:
CHASSIS:
Km:

WORKSHOP

WUTOMOTIF
AFT-UNY
KLASSCKUOTO
A
AA
A

EXAMINER :