Diesel Engine

COLLEGE OF ENGINEERING

DO NOT use this equipment unless an instructor has instructed you in its safe use/operation and has given permission.



Safety glasses may be required in work areas.



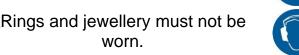
Long and loose hair must be contained or constrained.



Long-pants are required.



Appropriate footwear with closed-toe must be worn.





Hearing protection may be required.

PRE-OPERATIONAL SAFETY CHECKS

- 1. Check workspaces and walkways to ensure no slip/trip-hazards are present.
- 2. Check that all equipment components are in position and are operational.
- 3. Ensure you are familiar with the operation of the equipment.
- 4. Keep table and work area clear of all tools and debris.
- 5. Faulty equipment must not be used. Immediately report suspect equipment.
- 6. Be aware of any other students or personnel in the immediate vicinity and ensure the area is clear before using this equipment.
- 7. Familiarize yourself with all mechanical operations, switches and controls, including potential chemicals that may be used.
- 8. If you have any questions or concerns, ask the laboratory technician or instructor first.

OPERATIONAL PROCEDURES

NO FOOD OR DRINK PERMITTED NEAR EXPERIMENTS.

- 1. Turn on exhaust fan.
- 2. Turn on master dynamometer switch.
- 3. Start engine and let it warm up.
- 4. Let the engine consume the fuel from the glass container on the scale.
- 5. Record data.
- 6. Change the load on engine slightly (one turn only) according to procedure.
- 7. Repeat as needed.

HOUSEKEEPING

- 1. Turn off all equipment once experiment is completed.
- 2. Keep all walkways and aisles free of clutter and debris.

POTENTIAL HAZARDS

Amputation from fan blades/belt and pulley Noise Eye injuries				
Electrical shock	Manual handling	Heat	Exhaust fumes	Rotating shaft
Date of last review			Signature	