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Technical Safety Data Sheet

Equipment Name: Tub Grinder (HD-8 Industrial Grinder)

Manufacturer: Duratech Industries International, Inc.

Address

P.O. Box 1840

Jamestown, ND 58402

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Equipment Description: This equipment is trailer mounted and powered by a diesel engine, and is used to grind wood pallets or other wood products for disposal. An external truck-mounted grapple (clamshell) is used to pick up the wood material and load it into a hopper. The ground material exits the equipment on a conveyor belt. The equipment operating controls are mounted on the side of the grinder. Equipment dimensions are 20' 10" L x 7' 8" W x 8' 7" H.

Precautions for Safe Handling and Use:

Operation

This equipment may eject pieces of wood with enough force to travel up to 70 feet from the grinder. Do NOT attempt to use the access platform during operation. All personnel other than the clamshell operator should remain at least 100 feet from the grinder during operation. After

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concluding grinding operations, allow five minutes before approaching the equipment to shut it off to avoid being struck by projectiles.

Keep body parts such as the hands and feet away from power driven parts.

Do not leave the machine running unattended.

Do not stand on the machine for any reason during operation

Do not attempt to dislodge material inside the mill during the equipment operation.

Avoid contact with the diesel engine to prevent burns or having loose objects such as clothing caught in moving parts.

Before attempting to operate or perform maintenance on this equipment, read the Duratech Industries HD-8 Industrial Grinder Operation and Parts Manual (# 94).

Wear appropriate personal protective equipment (PPE). See control measures section for details.

Maintenance

Shut off engine, remove key, and wait for all movement to stop prior to performing any maintenance.

Tighten or replace any loose or cracked bolts, chains, hoses or connections

Fluid leaks or overheating of the pump must not be checked by placing a hand directly on the components. Use a piece of cardboard to check for leaks. Heat can be detected near a component without physically touching it.

Relieve all pressure in the hydraulic system prior to performing any maintenance on the system.

Replace missing or damaged hammers.

Keep shields in place and in good condition.

Installation

Make sure the grinder is on firm level ground before operating.

Modifications to this equipment are prohibited unless specifically requested by the manufacturer. This equipment should only be operated outdoors.

Health Hazard Data

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Chemical Hazard: None observed

Physical Hazard: Projectiles may be thrown distances up to 70 feet during operation. Equipment generates noise levels between 80 and 95 dB during operation.

Biological Hazard: None observed

Ergonomic Hazard: None observed

Environmental Hazard: None observed

Control Measures

Personal Protective Equipment Requirements: A hard-hat, safety glasses and hearing protection should be worn by all personnel in the operating area.

Ventilation Requirements: This equipment should only be operated outdoors.

Posting Requirements: Warning signs should be posted warning personnel about hot surfaces, hazards from moving parts, high noise levels and to restrict unauthorized personnel from the operating area.