Customer Service Bulletin
Commercial Business Group

January 9, 2002

Equipment with Turbocharged Engines

Model/Serial Range:	Model Numbers:	Serial Numbers:
	00000-99999 (ALL)	00000-220999999 (ALL)

Subject: Precautionary measures for engines equipped with a turbo-charger.

Engines equipped with turbochargers require precautions due to the nature of turbocharger operation. Extreme heat is created in the turbocharger during normal loading. If the turbo-charger is not allowed to cool down after periods of operation, damage to the turbocharger is possible.

The turbocharger bearings are supplied with oil only while the engine is running. Should the turbocharger spin without the engine running, damage to the turbocharger can result. Situations such as trailering a unit with the exhaust heading into the wind can also spin the turbocharger without proper lubrication.

Important: Allow the engine to idle for five minutes before shutting it off after full load operation. Failure to due so may lead to turbo-charger trouble.

When trailering equipment always load the equipment so that the exhaust points to the rear. If loading the equipment in this manner is not possible, then cover the exhaust pipe to ensure air cannot be forced into the exhaust.

Ref: 03-03.doc Copyright©, 2002. The Toro Company