

# PART 1 ENGINE

## Chapter 1 ENGINE AND LUBRICATION SYSTEM

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### A. DESCRIPTION AND OPERATION

This chapter describes the overhaul and repair of the Ford 14 HP LGT diesel engine.

The Ford 14 HP LGT tractor, Figure 1, is equipped with a 3-cylinder in-line, four cycle, liquid cooled, overhead valve engine. The 14 HP LGT engine is a new design engine identified by code number E643. The code number is cast into the left side of the block and readily accessible for reference.

The engine has a 43.4 cu. in. (617 cc) displacement with a compression ratio of 23.5:1.

The engine is positioned in the tractor chassis in reverse position, i.e., with the engine (fan, radiator, water pump, etc.) facing the rear of the tractor as shown, Figure 2.

All reference to left, right, front and rear in this repair manual is made as follows:

**WHOLE TRACTOR:** All reference to the tractor are as viewed by the operator traveling in the forward direction.

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**ENGINE ONLY (Removed From Tractor):** All reference to the engine when removed from the chassis is consistent with normal engine repair procedures. That is, with the water pump at the front and the flywheel at the rear of the engine.



Figure 1  
Ford 14 HP LGT Diesel Tractor

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**K Payea**



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