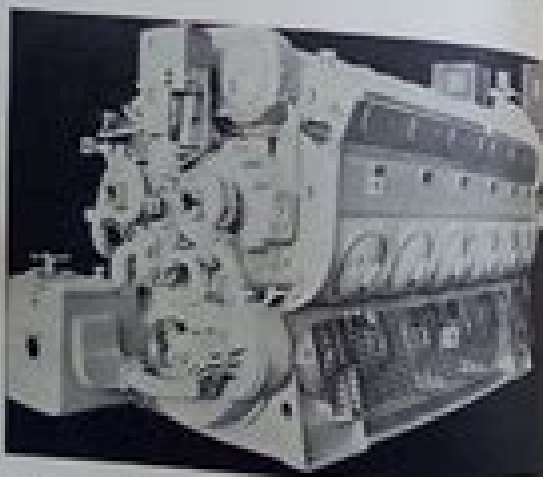


DESCRIPTION

DIESEL ENGINE

The main generator and auxiliaries of these locomotives are driven by a V-type, two-cycle, model 567C General Motors engine. The cylinders have an 8 1/2 in. bore and a 10 in. stroke. Two banks of the engine are arranged at a 45° angle to each other. A front view of the 12-567C engine used in these locomotives is shown in Fig. 3. The engine has a fully scavenging air system, using an exhaust valve on the 12-567C engine, mounted on the rear end of the cylinder and gear driven by the engine. Each cylinder is supplied with separate air intake filter.



- | | | |
|---------------------------------|--|----------------------------|
| 1. Engine speed governor | 7. Lubricating oil pressure relief valve | 13. Oil separator |
| 2. Exhaust linkage | 8. Lubricating oil pump | 14. Cylinder head valve |
| 3. Fuel lines | 9. Lubricating oil strainer | 15. Engine air filter |
| 4. Fuel flow sight glass | 10. Scavenging air pump | 16. Blower support |
| 5. Lubricating oil control line | 11. Top deck covers | 17. Air fan and fan covers |
| 6. Water pumps | 12. Engine air intake filter | 18. Engine mount |
| | | 19. Oil pan and fan covers |

Fig. 3. 12-567C Diesel engine.

DESCRIPTION

MAIN GENERATOR

The main generator, Fig. 4, is connected to the diesel engine crankshaft through a constant 1:1 ratio coupling. The constant 1:1 ratio coupling produces direct current generator output voltage for operation of a nominal 600 volt DC system. The armature of the main generator is mounted on the rear end of the engine. The main generator is a model D12 or D21 main generator.



Fig. 4. Main generator.

TRACTION MOTORS

Series-wound traction motors are used in each locomotive unit, Fig. 5. Each motor is geared to the axle, which it drives, by a motor pinion gear meshing with an axle gear. The ratio between the two gears, Fig. 6, is expressed as a double number such as 63-14. In this case the axle gear has 63 teeth, while the pinion has 14 teeth and is the ratio used on the "Dc" class locomotives.



Fig. 5. Traction motor.

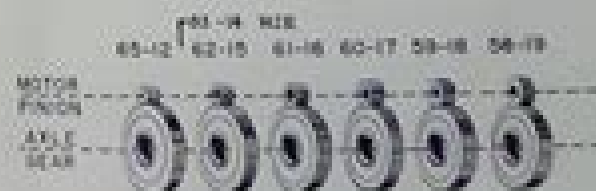
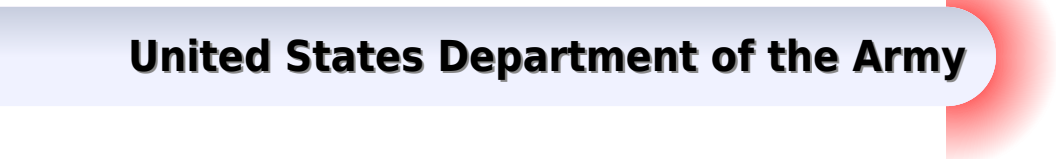


Fig. 6. Gear ratio chart.

White Manual For Diesel Locomotives

United States Department of the Army



White Manual For Diesel Locomotives:

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