

# DETROIT DIESEL

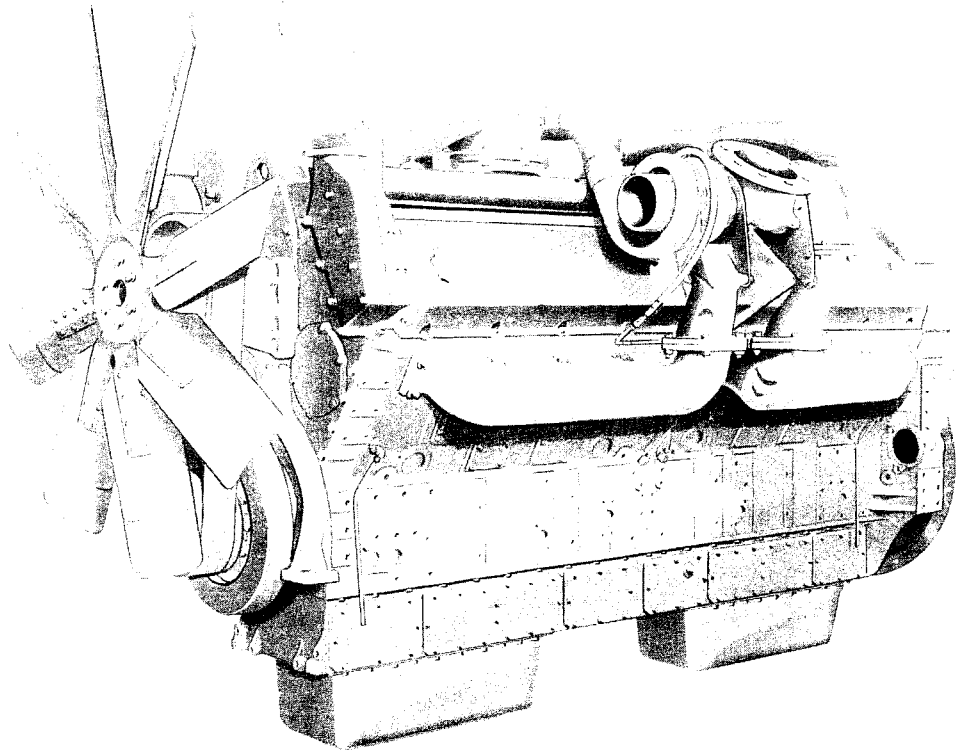
FAN-TO-  
FLYWHEEL  
ENGINES

16V-149	16V-149T
1060 HP	1325 HP

## MODEL

16V-149    9163-7000

16V-149T    9163-7300



Typical Model 9163-7300



A Power Product of General Motors



# SPECIFICATIONS

	16V-149	16V-149T
Model . . . . .	9163-7000	9163-7300
Engine Type. . . . .	Two Cycle	Two Cycle
No. of Cylinders . . . . .	16	16
Bore and Stroke . . . . .	5 3/4 in. x 5 3/4 in.	5 3/4 in. x 5 3/4 in.
Two Cycle Displacement (Every Downstroke a Power Stroke) . . . . .	2384 cu. in.	2384 cu. in.
Max. Brake Horsepower —1900 RPM. . . . .	1060	1325
Rated Brake Horsepower —1900 RPM. . . . .	1060	1325
Continuous Brake Horsepower—1800 RPM . . . . .	900	900
Torque—1500 RPM . . . . .	3080 lb. ft.	
1400 RPM . . . . .		3900 lb. ft.
Compression Ratio . . . . .	18 to 1	18 to 1
Net Weight (Dry) with Standard Equipment (Est.) . . . . .	10630	10840

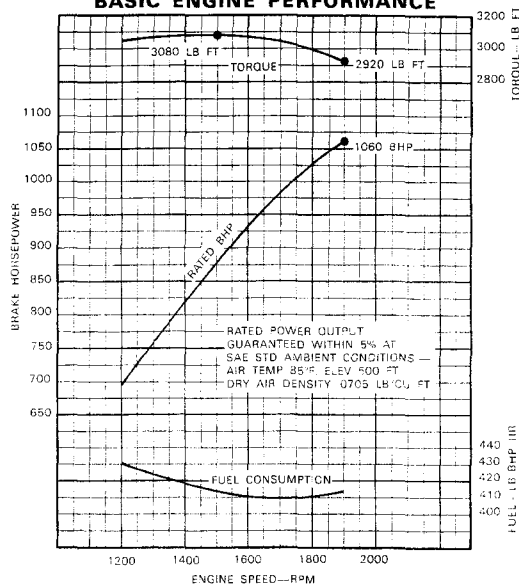
# STANDARD EQUIPMENT

Air Inlet Housing—Manual unitized shutdown  
Crankshaft Pulley  
Engine Mounts—Trunnion  
Exhaust Manifold—Center outlet  
Fan—52"—8 blade, suction, Model 9163-7000  
60"—8 blade, suction, Model 9163-7300  
Flywheel—SAE #0  
Flywheel Housing—SAE #0  
Fuel Filters and Hoses  
Generator—24 volt—30 amp A.C.  
Governor—Variable Speed  
Injectors—Cam-operated, Unit type  
Lube Oil Filters—Full-flow Filters  
Oil Cooler  
Oil Pan and Distribution System—For 15 degree inclination  
Starting Equipment—24 volt Sprag Clutch  
Throttle Controls  
Turbocharger—Model 9163-7300 only

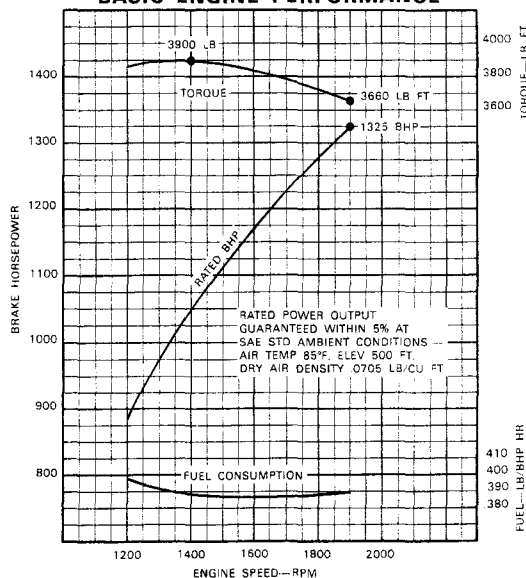
OPTIONAL AND EXTRA EQUIPMENT AVAILABLE

# PERFORMANCE

MODEL 9163-7000  
WITH 130 INJECTORS  
BASIC ENGINE PERFORMANCE



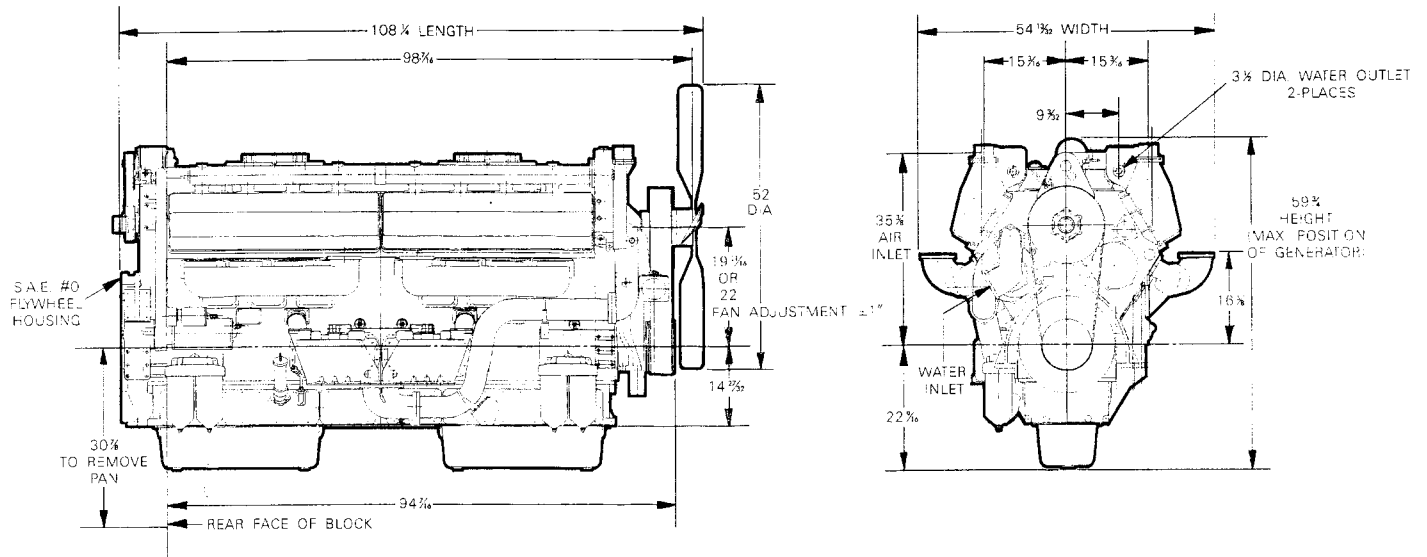
MODEL 9163-7300  
WITH 150 INJECTORS  
BASIC ENGINE PERFORMANCE



For complete engine specifications for your particular application, see your authorized Detroit Diesel representative.

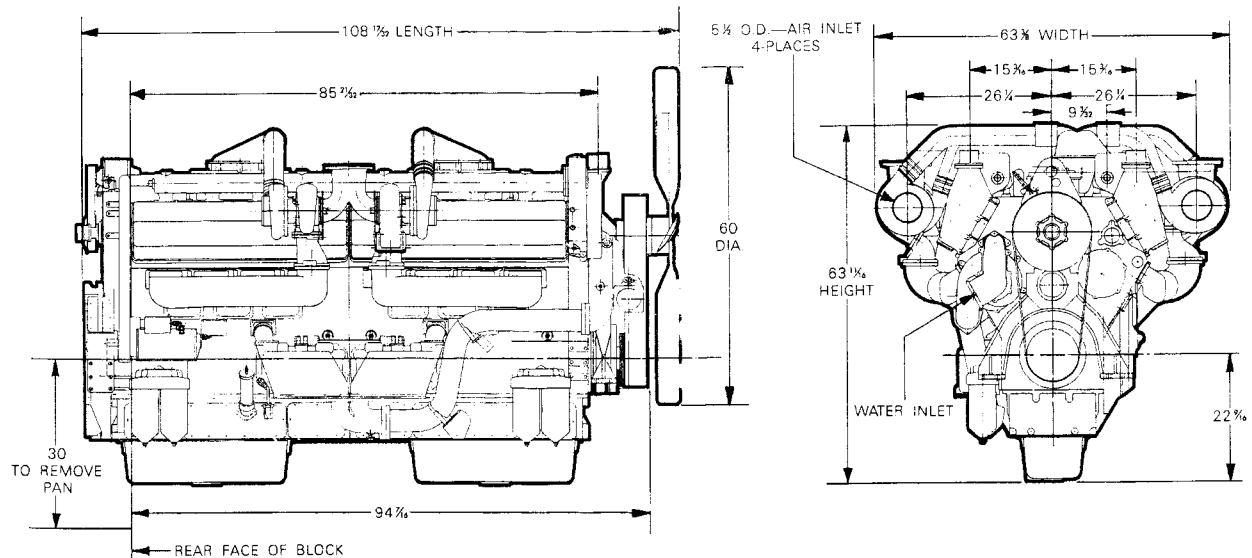
# PRINCIPAL DIMENSIONS

## 9163-7000



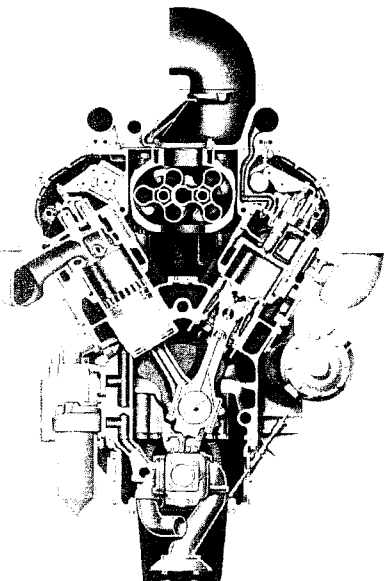
FOR COMPLETE DIMENSIONS REFER TO INSTALLATION DRAWING 2SA360

## 9163-7300



FOR COMPLETE DIMENSIONS REFER TO INSTALLATION DRAWING 2SA359

# DETROIT DIESEL FAMILY OF ENGINES ADVANTAGES



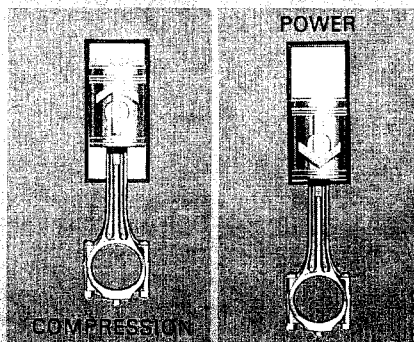
## Rugged, precision construction

- Laminated metal compression gaskets and synthetic rubber water and oil seals provide a longer-lived, leakproof bond between the cylinder head and block. The resulting metal-to-metal contact gives better heat transfer, preventing head cracking.
- Distortion-resistance is built into the cast iron cylinder head. Hardened valve seats are pressed into the head for proper valve seating and longer head and valve life.
- Long life, resistance to deflection and precise performance are accomplished by the drop-forged camshaft with hardened cams and journals.
- Easily replaceable, heat-treated cast iron cylinder liners provide a

hard, scuff-resistant wearing surface, lengthening intervals between overhauls.

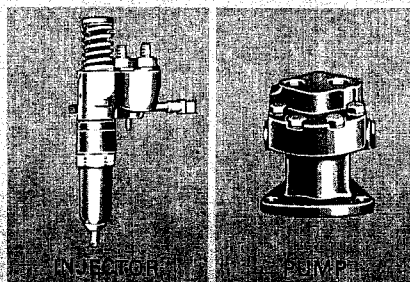
- The pistons are ribbed for cooling and strength and tin-plated for superior oil retention, giving longer life. Rings are of break-resistant, chrome-plated steel.
- Durability of connecting rods is provided by drop-forged steel construction. Rifle-drilled oil passages provide piston pin lubrication and spray cooling of the piston under-head.
- The crankshaft is a drop-forged, induction-hardened unit giving maximum strength and better wear. It is statically and dynamically balanced for smooth operation.

## Two cycle design



Each cylinder performs the four functions of intake, compression, power and exhaust in one crankshaft revolution. Every piston downstroke is a powerstroke. This design makes Detroit Diesels lightest in weight, smallest in size and fastest in acceleration of all diesels. Work is done faster, more economically.

## Unit injector fuel system



The Unit Injector fuel system provides maximum fuel economy from fast, complete combustion and affords excellent serviceability because of its simple, efficient design. Cam-actuated Unit Injectors meter, pressurize, atomize and inject the fuel in one precise operation. A simple low-pressure transfer pump circulates fuel through the lines, filters and injectors.

## Unmatched parts interchangeability

Only Detroit Diesel builds engines with maximum parts interchangeability (up to 70% within a Series). This means that parts are readily available, inventories can be held to a minimum, and parts cost less as a benefit of volume production.

## World-Wide sales, parts and service

Detroit Diesels are sold, installed and serviced by a world-wide network of over 1400 distributors and dealers. They are experienced "engine people" who know and understand your problems and are equipped to give you complete service. You can count on dependable parts and reliable service if you own a Detroit Diesel engine.



## DETROIT DIESEL ENGINE DIVISION

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IN CANADA DIESEL DIVISION, GENERAL MOTORS OF CANADA LIMITED ■ LONDON, ONTARIO