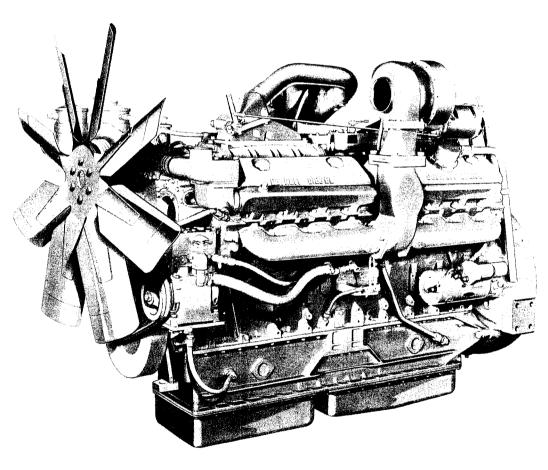
DETROIT DIESEL





12V-71T 7123-7300

16V-71T 7163-7300



Model 7163-7300

A Power Product of General Motors



SPECIFICATIONS

	<u>12V-71T</u>	16V-71T
Model	7123-7300	7163-7300
Engine Type	Two Cycle	Two Cycle
No. of Cylinders	12	16
Bore and Stroke	4¼ in. x 5 in.	4¼ in. x 5 in.
Two Cycle Displacement (Every Downstroke a Powerstroke)	852 cu. in.	1136 cu. in.
Rated Brake Horsepower—2100 RPM .	525	700
Torque—1600 RPM	1450 lb. ft.	1930 lb. ft.
Compression Ratio	17 to 1	17 to 1
Net Weight (Dry) with Standard Equipment	3550 lbs.	4800 lbs.

STANDARD EQUIPMENT

Air Inlet Housing—Manual shutdown

Crankshaft Pulley—3 grooves—6.84" dia. and 1 groove—7.50" dia.—Model 7123-7300

9" dia. Poly and 2 grooves— 7.50" dia.—Model 7163-7300

Engine Mounts—Stationary Model 7163-7300

Exhaust Manifold

Fan—36"—8 blade suction Model 7123-7300

40"—8 blade suction Model 7163-7300

Flywheel—SAE #1/2 for 18" clutch

Flywheel Housing—SAE #1/2

Generator—24 volt, 20 amp, Model 7123-7300 24 volt, 30 amp, Model 7163-7300

Governor—Limiting Speed, Model 7123-7300 Variable Speed, Model 7163-7300

Injectors—Cam operated, Unit Type

Lube Oil Filter-Full Flow Filter

Oil Pan and Distribution System—For 20 degree inclination

Starting Equipment—24 volt, Sprag clutch

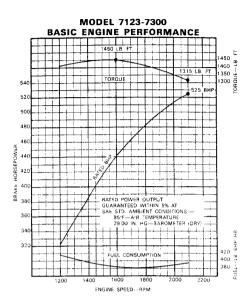
Turbocharger—Two turbochargers with air inlet connections

Vibration Damper—Single, heavy viscous

Instruments—Includes ammeter, water and oil temperature gauges, and starter button—Model 7123-7300

OPTIONAL AND EXTRA EQUIPMENT AVAILABLE

PERFORMANCE

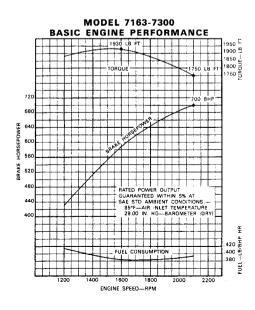


Rating Explanation

RATED BHY is the power rating for variable double to applications where full power is required intermediately

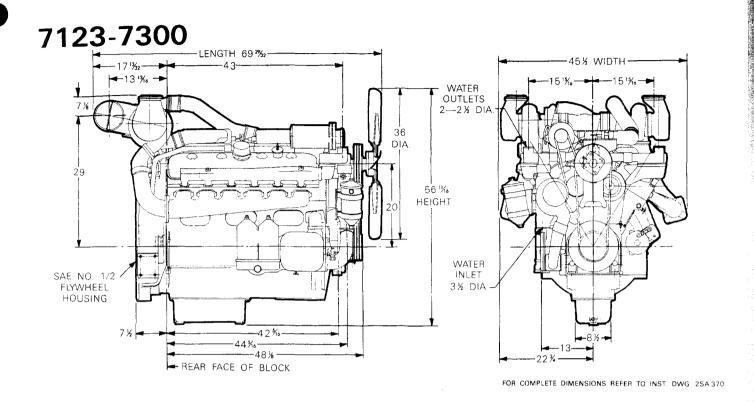
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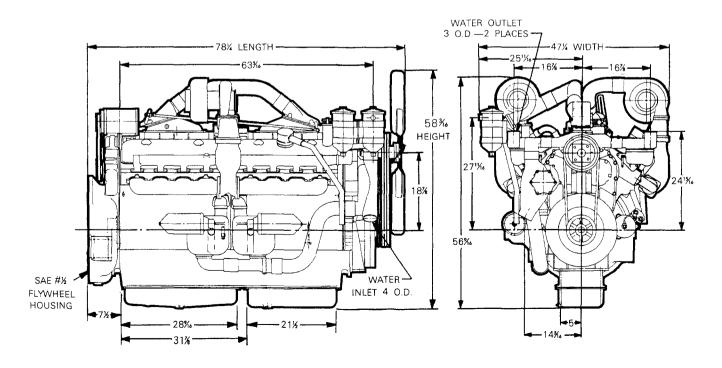


For complete engine specifications for your particular application, see your authorized Detroit Diesel representative.

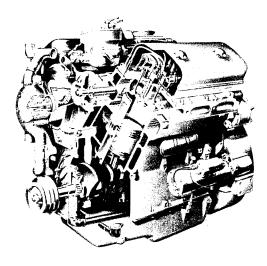
PRINCIPAL DIMENSIONS



7163-7300



DETROIT DIESEL: FAMILY OF ENGINE ADVANTAGES



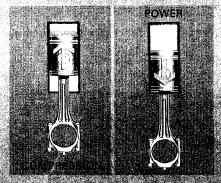
Rugged, precision construction

- 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.

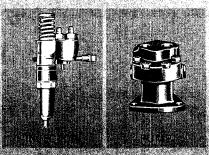
- The pistons are ribbed for cooling and strength and tin-plated for superior oil retention, giving longer life. Rings are of break-resistant, chrome-plated steel.
- Durability of connecting rods is provided by drop-forged steel construction. Rifle-drilled oil passages provide piston pin lubrication and spray cooling of the piston underhead.
- 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 crank-shaft revolution Every uiston downstroke is a powerstroke. This design makes Detroit Diesels lightest howeight, smallest in size and fastest in acceleration of all diesels. Works is done faster, more accordingly.

Unit injector fuel system



The Unit imjector fuel system provides maximum fuel economy from tast. Complete combustion and altords excellent serviceability because of its simple; efficient design. Camactuated Unit injectors meter, pressurize, aromize and inject the fuel to one precise operation. A simple low pressure transfer pump occulates fuel through the lines filters.

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 fengine 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 betroit Diesel engine.



DETROIT DIESEL ENGINE DIVISION

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