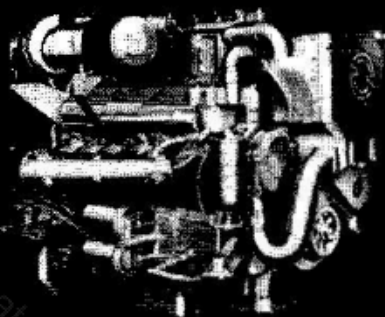


Detroit Diesel Engines marine models

12V-71
500 hp

12V-71TI
750 hp
Twin Disc MG514CHP
Marine Gear

12V-71TI
870 hp
ZF BW 195
Marine Gear



Typical 12V-71TI
Marine Model

basic specifications

Basic Engine	12V-71	12V-71TI Twin Disc MG514CHP Marine Gear	12V-71TI ZF BW 195 Marine Gear
Model-Port	7122-3000, 7122-3001**	7122-3300A, 3302	—
Starboard	7122-7000, 7122-7001**	7122-7300A, 7302	7122-7303
Description	Naturally Aspirated	Turbocharged-Intercooled	Turbocharged-Intercooled
Number of Cylinders	12	12	12
Bore and Stroke	4.25 in x 5 in (108mm x 127mm)	4.25 in x 5 in (108mm x 127mm)	4.25 in x 5 in (108mm x 127mm)
Displacement	852 cu in (13.97 liters)	852 cu in (13.97 liters)	852 cu in (13.97 liters)
Compression Ratio	18.7 to 1	17 to 1	17 to 1
Net Weight (dry)	4925 lbs (2234 kg)	5200 lbs (2359 kg)	5000 lbs (2268 kg)

**Models 7122-3001 and 7122-7001 are designed specifically for workboat use. See continuous ratings for power specifications.

A Models 7122-3300 and 7122-7300 are designed specifically for crewboat/intermittent use only and use the Twin Disc MG514 gear. See Twin Disc intermittent ratings for power specifications.

power specifications

Continuous			
Injectors	N55		
Rated Gross Power	359 BHP (268 kW) @ 1800 RPM*	No continuous rating is currently available for the 12V-71TI	No continuous rating is currently available for the 12V-71TI
Rated Net Power	340 SHP (254 kW) @ 1800 RPM*		
Intermittent			
Injectors	N65	N70	N70
Rated Gross Power	456 BHP (340 kW) @ 2100 RPM*	539 BHP (402 kW) @ 2100 RPM*	539 BHP (402 kW) @ 2100 RPM*
Rated Net Power	437 SHP (326 kW) @ 2100 RPM*	510 SHP (380 kW) @ 2100 RPM*	510 SHP (380 kW) @ 2100 RPM*
Maximum			
Injectors	N70	7N95	9215
Rated Gross Power	500 BHP (373 kW) @ 2300 RPM*	750 BHP (560 kW) @ 2300 RPM†	870 BHP (649 kW) @ 2300 RPM†
Rated Net Power	480 SHP (358 kW) @ 2300 RPM*	720 SHP (537 kW) @ 2300 RPM†	840 SHP (627 kW) @ 2300 RPM†

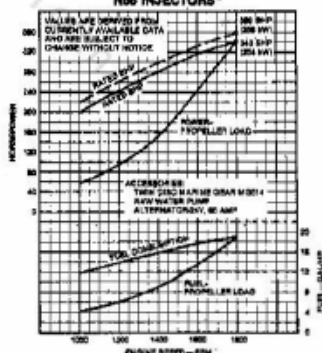
*Rating conditions of 85°F (29.4°C) and 29.00 in Hg (98.19 kPa) Barometer (Dry)

†Rating conditions of SAE: 77°F (25°C) and 29.31 in Hg (99 kPa) Barometer (Dry)

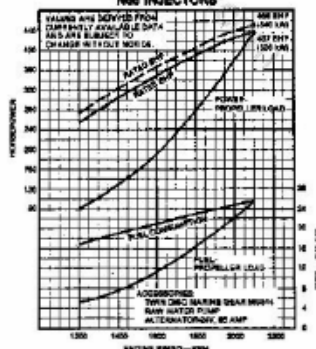
Values are derived from currently available data and are subject to change without notice.

12V-71

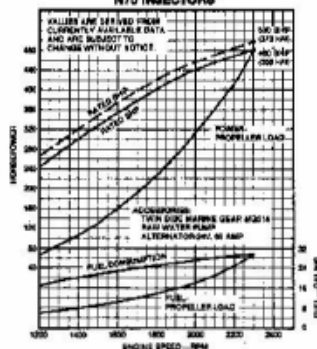
**MODEL 12V-71
MARINE CONTINUOUS RATING
N66 INJECTORS***



**MODEL 12V-71
MARINE INTERMITTENT RATING
N66 INJECTORS***



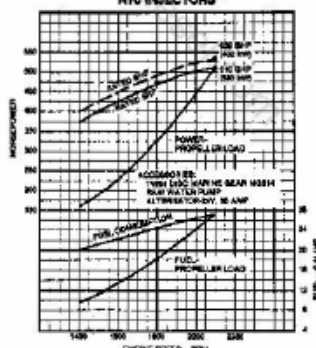
**MODEL 12V-71
MARINE MAXIMUM RATING
N70 INJECTORS***



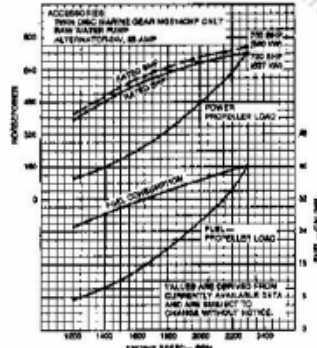
12V-71TI (Twin Disc MG514 and Twin Disc MG514CHP Marine Gear)

No continuous rating is
currently available for the
12V-71TI

**MODEL 12V-71TI
MARINE INTERMITTENT RATING
N70 INJECTORS***



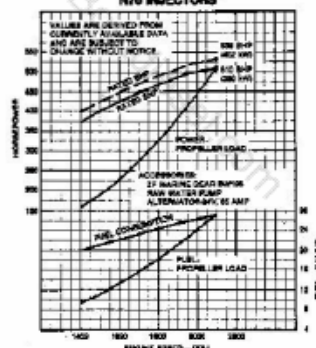
**MODEL 12V-71TI
MARINE MAXIMUM RATING
N70 INJECTORS***



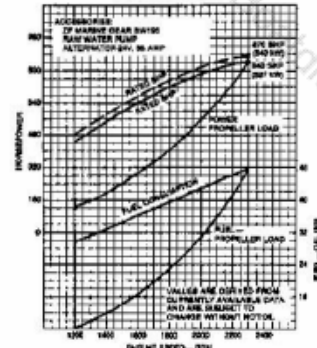
12V-71TI (ZF BW 195 Marine Gear)

No continuous rating is
currently available for the
12V-71TI

**MODEL 12V-71TI
MARINE INTERMITTENT RATING
N70 INJECTORS***



**MODEL 12V-71TI
MARINE MAXIMUM RATING
N70 INJECTORS***



Rating Explanation

RATED BHP—Basic engine gross horsepower.

RATED SHP—Net power available at the marine gear output shaft.

PROPELLER LOAD—Indicates horsepower absorbed by a typical propeller and the corresponding fuel consumption throughout the speed range.

POWER OUTPUT guaranteed within 5% at standard ambient conditions.

MARINE ENGINE RATING—The use of

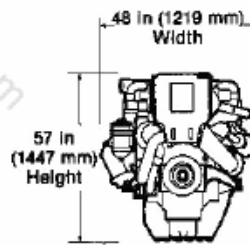
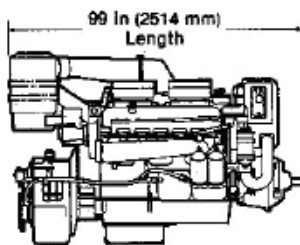
the ratings e.g., maximum, intermittent and continuous; varies with type of vessel in which the engine is installed. See your Detroit Diesel Allison representative for the rating that will apply to your vessel.

*Rating conditions of 85°F (29.4°C) and 29.00 in Hg (98.19 kPa) Barometer (Dry)

†Rating conditions of SAE: 77°F (25°C) and 29.31 in Hg (99 kPa) Barometer (Dry)

Model 7122-3000, 7122-7000

12V-71

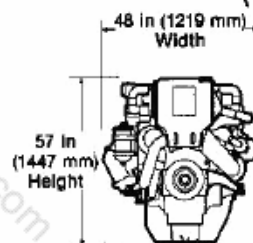
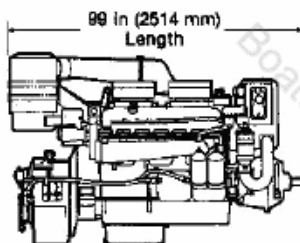


Approximate dimensions shown.
For complete dimensional information, refer to installation drawing 28A442.

Model 7122-3001, 7122-7001

12V-71

(Workboat Model)

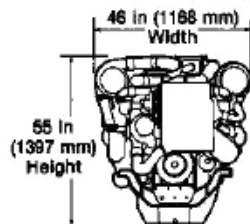
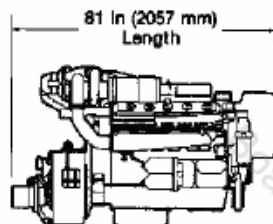


Approximate dimensions shown.
For complete dimensional information, refer to installation drawing 28A442.

Model 7122-3300, 7122-7300, 7122-3302, 7122-7302

12V-71TI

**Twin Disc MG514 and
Twin Disc MG514CHP
Marine Gear**

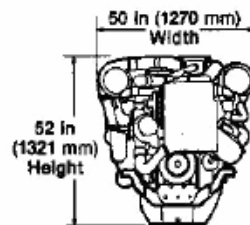
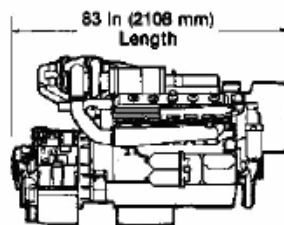


Approximate dimensions shown.
For complete dimensional information, refer to installation drawing 28A367.

Model 7122-7303

12V-71TI

ZF BW 195 Marine Gear



Approximate dimensions shown.

standard equipment

Air Inlet Housing

Air Silencers

Alternator—24 volt, 65 amp

Crankshaft Pulley (standard equipment on all models except for 12V-71 workboat models 7122-3001 and 7122-7001)

Engine Mounts—Includes mounts for both engine and marine gear

Exhaust Manifold—Water cooled

Flywheel Housing—SAE #1

Fuel Cooler—12V-71TI only

Fuel Filters—Spin-on

Governor—Variable speed

Heat Exchanger—Includes raw water pump and piping

Injectors—Cam operated, unit type, clean tip

Instruments—Includes ammeter, hour meter, tachometer, water temperature gauge, and oil pressure gauges for both engine and marine gear

Intercooler—12V-71TI only

Lube Oil Cooler

Lube Oil Filter—Full Flow, spin-on

Marine Gear—Twin Disc, hydraulic reverse and reduction gear, 2 to 1 ratio, MG514, 12V-71; 4.13 to 1 ratio, MG514, 12V-71 (workboat model); 2 to 1 ratio, MG514, 12V-71TI; ZF, hydraulic reverse and reduction gear, BW 195, 3 to 1 ratio, 12V-71TI

Oil Pan—stamped steel pan for 0°-15° inclination angle, rear sump

Starting Motor—24 volt

Turbocharger—Twin turbos, 12V-71TI only

Vibration Damper—Single, heavy, viscous

Water Filter—Fresh water filter with 30-gallon (113.6 liters) capacity

For a complete listing of standard and optional equipment, consult your authorized Detroit Diesel Allison representative.

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