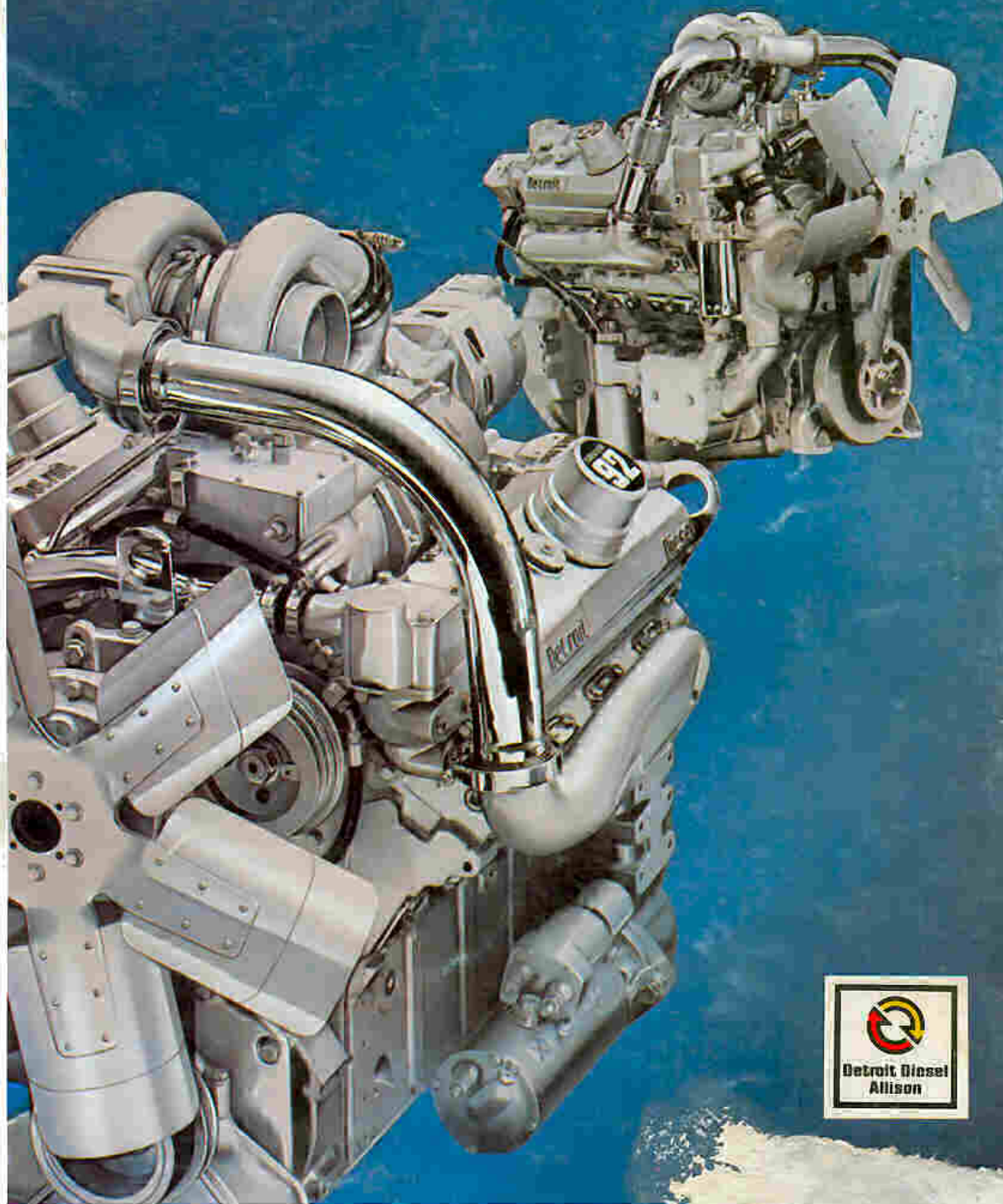




The Silver 92 6V & 8V Truck Engines...

proven over the long haul



Silver 92 Ratings

Ratings Chart

Federal JWAC – Jacket Water Aftercooled

	HP@RPM	Peak Torque (lb. ft. @RPM)	Operating Range (RPM)
6V-92TA	270@1800	975@1200	600
	270@2100	975@1200	900
	290@1600	1015@1000	600
	300@1800	975@1200	600
	300@2100	1020@1200	900
	350@2100	1025@1200	900
8V-92TA	350@1600	1250@1000	600
	350@1800	1175@1200	600
	400@1800	1250@1300	500
	400@2100	1330@1300	800
	450@2100	1250@1300	800
	475@2100	1330@1300	800

ALCC – Advanced Liquid Charge Cooled

6V-92TA	300@1800	975@1200	600
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Air-to-Air Charge Cooling

6V-92TA	300@1800	975@1200	600
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California JWAC – Jacket Water Aftercooled

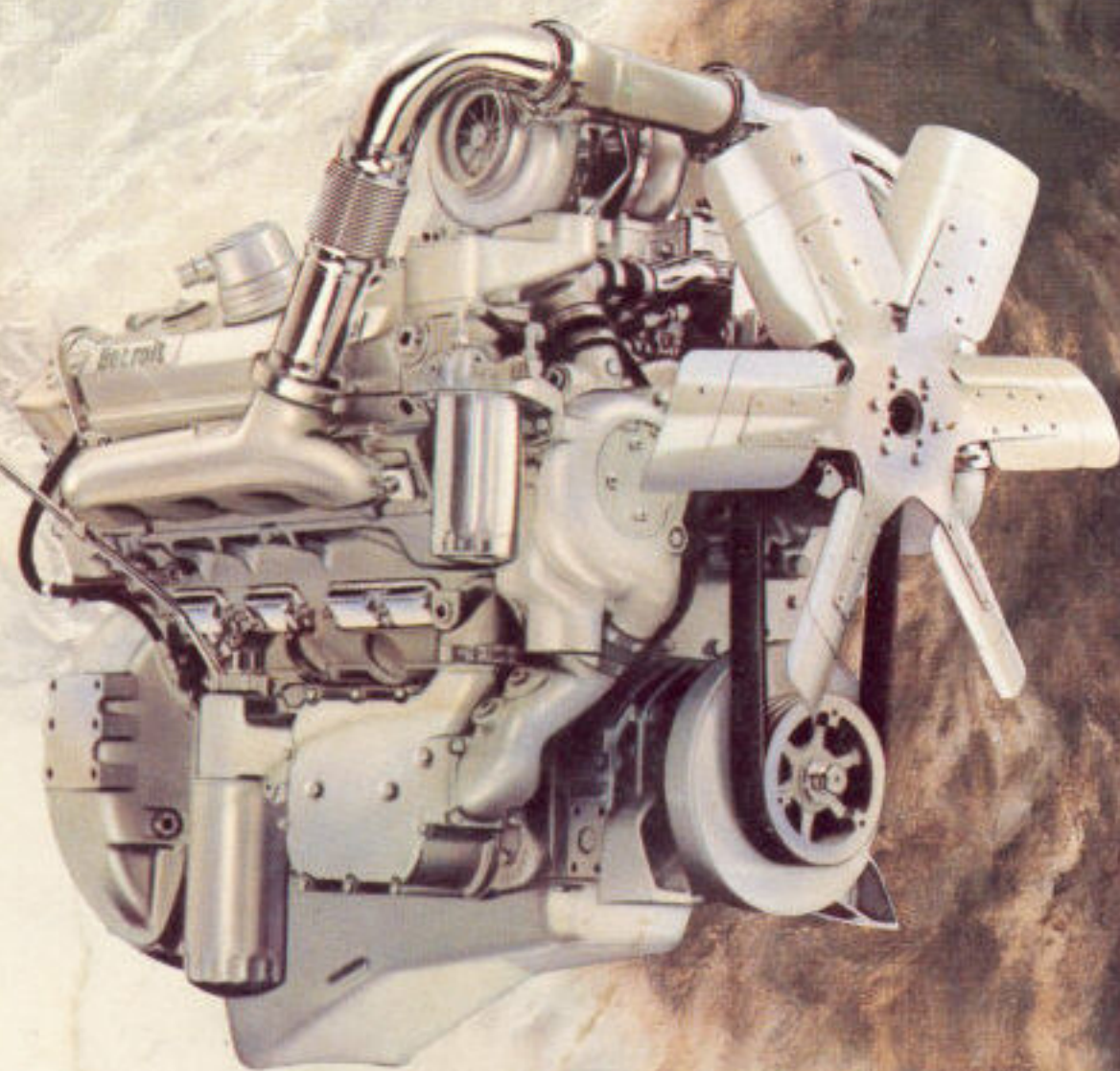
	HP@RPM	Peak Torque (lb. ft. @RPM)	Operating Range (RPM)
6V-92TAC	300@1800	1000@1200	600
	300@2100	1000@1200	900
	340@2100	1000@1200	900
8V-92TAC	350@1800	1175@1200	600
	400@1800	1250@1300	500
	400@2100	1250@1300	800
	450@2100	1250@1300	800

Silvertip 475

**Brute strength.
Startling agility.
Incredible endurance.**

The **Silvertip 475**, from Detroit Diesel Allison is an engine that sets the standard for performance and endurance. Like its namesake, the Silvertip Grizzly, the **Silvertip 475** is something to be revered and admired. Only a few people could tame the Silvertip Grizzly, and only a few people can tame the **Silvertip 475**. Just look at these attributes:

- **475 BHP (Brute Horsepower)** - to power your 18 wheeler over the roughest terrain.
- **1330 LB FT Torque** - to move the heaviest loads.
- **2415 LBS** - high horsepower to weight ratio for extra payload capability.
- **3-years/300,000-miles extended service coverage** - undeniable proof that we back what we sell.



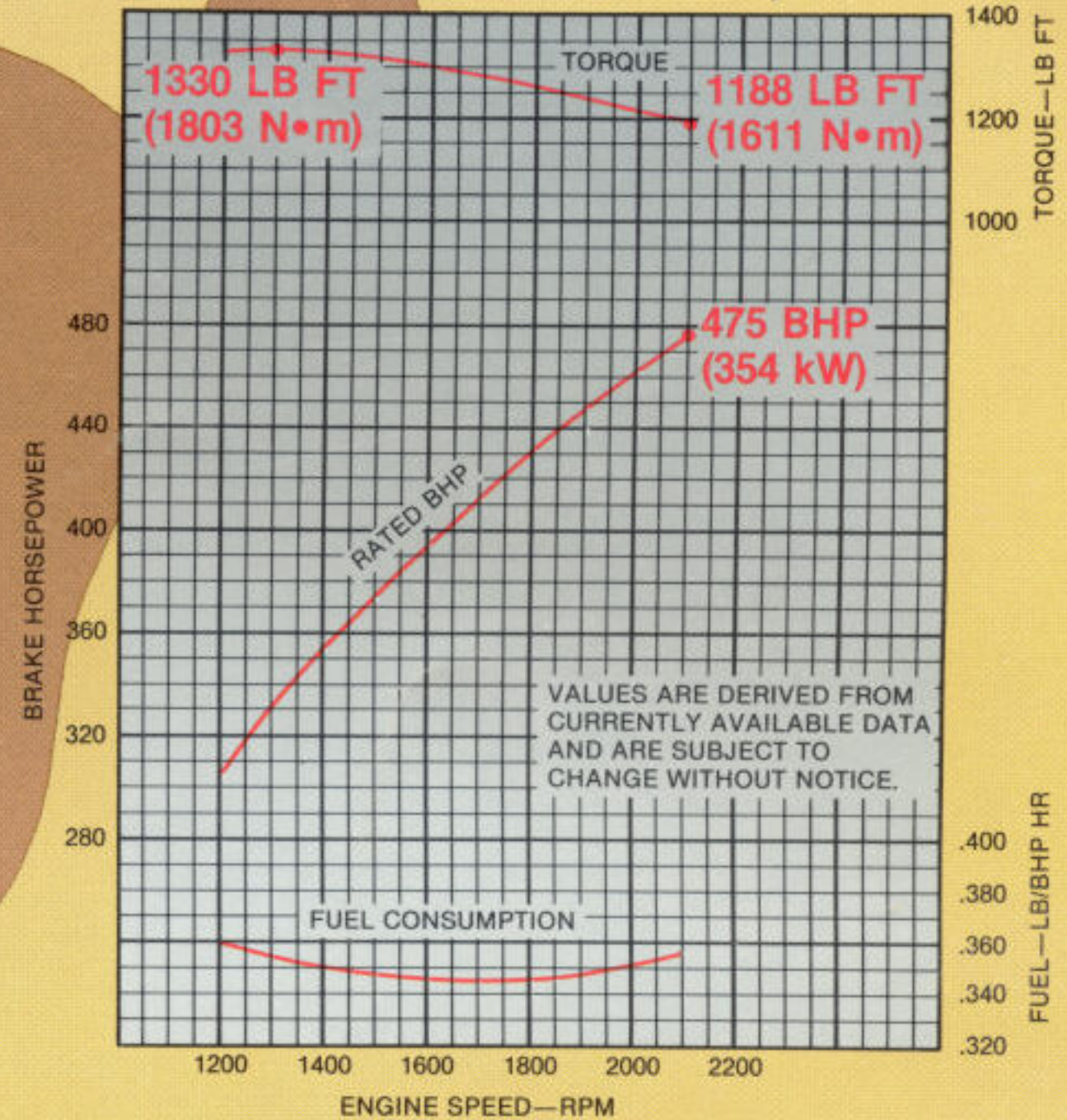
Silvertip 475

8V-92 JWAC TRUCK ENGINE
WITH 9G90 INJECTORS†

General Specifications

Number of cylinders — 8
Bore and Stroke — 4.84 in × 5 in (123 mm × 127 mm)
Displacement — 736 cu in (12.1 liters)
Injector — 9G90
Brake Horsepower† — 475 BHP (354 kW) @ 2100 RPM
Peak Torque — 1330 lb ft (1803 N•m) @ 1300 RPM
Compression Ratio — 17 to 1
Dimensions:
Length — 44 in (1118 mm)
Width — 38 in (965 mm)
Height — 50 in (1270 mm)
Net Weight (dry) — 2415 lbs (1095 kg)

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



The **Silvertip 475** is more than raw power. It's a state-of-the-art, high-tech powerplant. Built using the latest engineering technology, the **Silvertip 475** offers a combination of design features found in no other diesel:

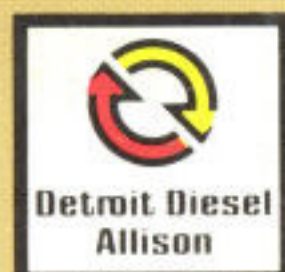
- ▣ **Crosshead Pistons** - Separate crown and skirt virtually eliminate side-loading, thus assuring you long life and dependability
- ▣ **Barrel-faced Piston Rings** - New grooveless compression rings provide uniform lubrication on the liner wall which improves ring life
- ▣ **Thermatic Oil Cooler** - A thermostatically-controlled bypass valve provides for faster oil warm-up, resulting in better lubrication and longer engine life
- ▣ **Cylinder Liner Ports** - Reshaped cylinder liner ports allow exhaust timing to be optimized, which contributes to improved thermal efficiency

- ▣ **Air Induction System** - New bypass blower valve improves air flow and provides more efficient air/fuel ratios, resulting in improved fuel efficiency
- ▣ **Crankshaft** - Dual drilled main journals provide up to 110% improvement in oil film thickness between main bearings and crankshaft journals, resulting in longer main bearing life

The **Silvertip 475**. **Brute strength. Startling ability. Incredible endurance.** Become one of the privileged few to own this rugged beast.

The **Silvertip 475**. **It simply tears up the competition.**

See your local DDA distributor or truck dealer for more information.



Detroit Diesel Allison

13400 Outer Drive, West, Detroit, Michigan 48239-4001
(313/592-5000)

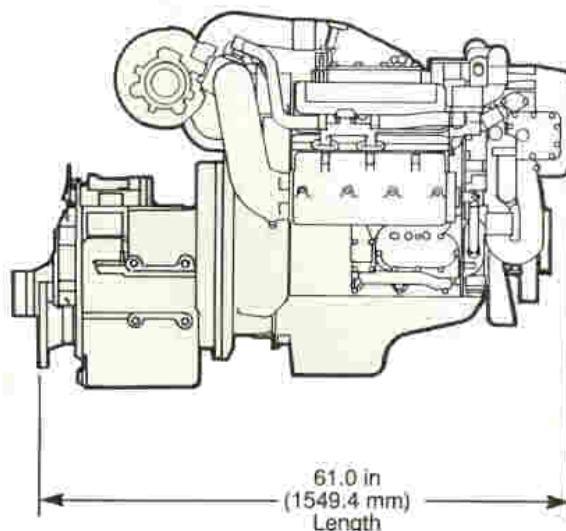
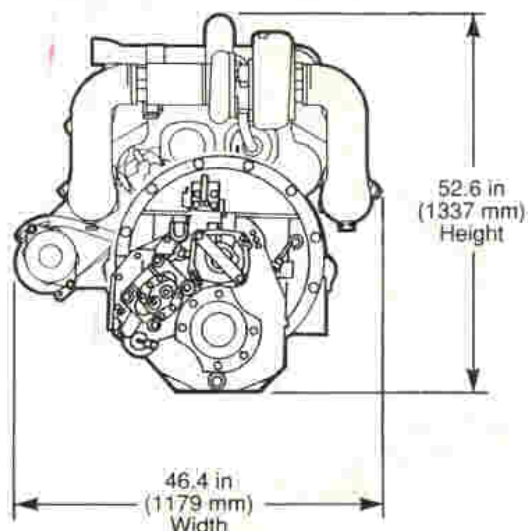


DETROIT DIESEL



6V-92TA
270 BHP

Marine Commercial
Continuous



General Specifications

Basic Engine	6V-92TA
Model	8062-7406
Description	Turbocharged-Aftercooled with Bypass Blower
Number of Cylinders	6
Bore and Stroke	4.84 in x 5.00 in (123 mm x 127 mm)
Displacement	552 cu in (9.05 liters)
Compression Ratio	17.0 to 1
Weight (dry)	3850 lbs (1746 kg)

Rated Power Output—Continuous

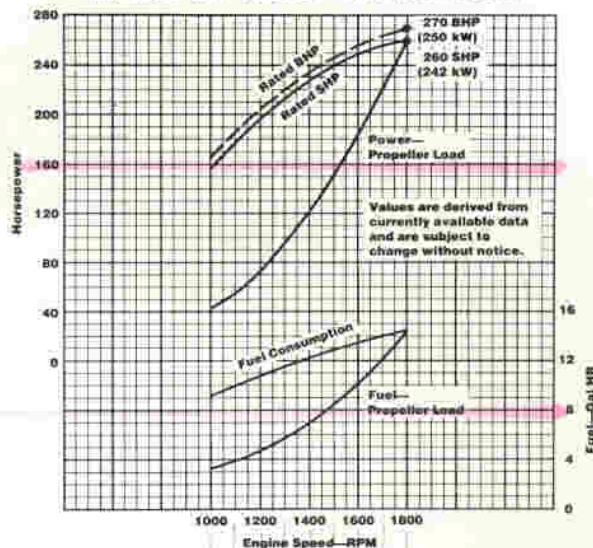
Injectors	7G75
Gross Power	270 BHP (250 kW) @ 1800 RPM
Net Power	260 SHP (242 kW) @ 1800 RPM

Equipment Specifications

Air Inlet Housing—With manual or electrical shutdown
Aftercooler—Three-pass
Alternator—24 volt, 60 amp
Cooling System—Low profile cast iron expansion tank
Engine Mounts—Solid mounts for both engine and marine gear
Exhaust System—Fresh water-cooled manifolds and turbine housing
Factory Installed Marine Gear Options—DD511 IV, 2.04, 2.54, 3.10, 3.92, 4.95
Flywheel Housing—SAE #1
Front PTO—60 HP
Fuel System—Cam operated unit injectors with low pressure USCG type A external hoses and fuel filters
Governor—Variable speed
Lube Oil Filter—Full flow
Oil Pan—Cast iron, designed for 0°-15° inclination angle, rear sump
Starting Motor—24 volt

Performance Curve

Model 6V-92TA—Continuous



Rating Explanation

RATED BHP Basic engine gross horsepower.

Rated SHP Net power available at the marine gear output flange.

PROPELLER LOAD indicates horsepower absorbed by a typical fixed pitch propeller.

POWER OUTPUT guaranteed within 5% at rated ambient conditions.

MARINE INTERMITTENT The marine intermittent rating applies to medium to high speed commercial boats that operate at moderate to low load factors.

These are boats intended for commercial service where 3,000 hours or less (3,500 hours for Series 149 engine) are accumulated annually. Normal or continuous cruising RPM should be limited to 95% of rated RPM, with intermittent use of rated power permitted. Typical examples include crewboats, water taxis, pilot boats, ferryboats, lobster boats, party fishing boats, charter sportfisherman, and patrol boats.

MARINE CONTINUOUS The marine continuous rating applies to medium or low speed boats (normally of the displacement type) which operate up to 24 hours a day, 365 days a year, at high load factors. Typical examples include tugs, towboats, offshore supply boats, fishing trawlers and driggers.

Consult your authorized Detroit Diesel Corporation representative for the rating that will apply to your vessel.

DETROIT DIESEL

CORPORATION



13400 Outer
Ne

Michigan 48239-4001



DETROIT DIESEL

CORPORATION



92TA

Industrial

Rated BHP

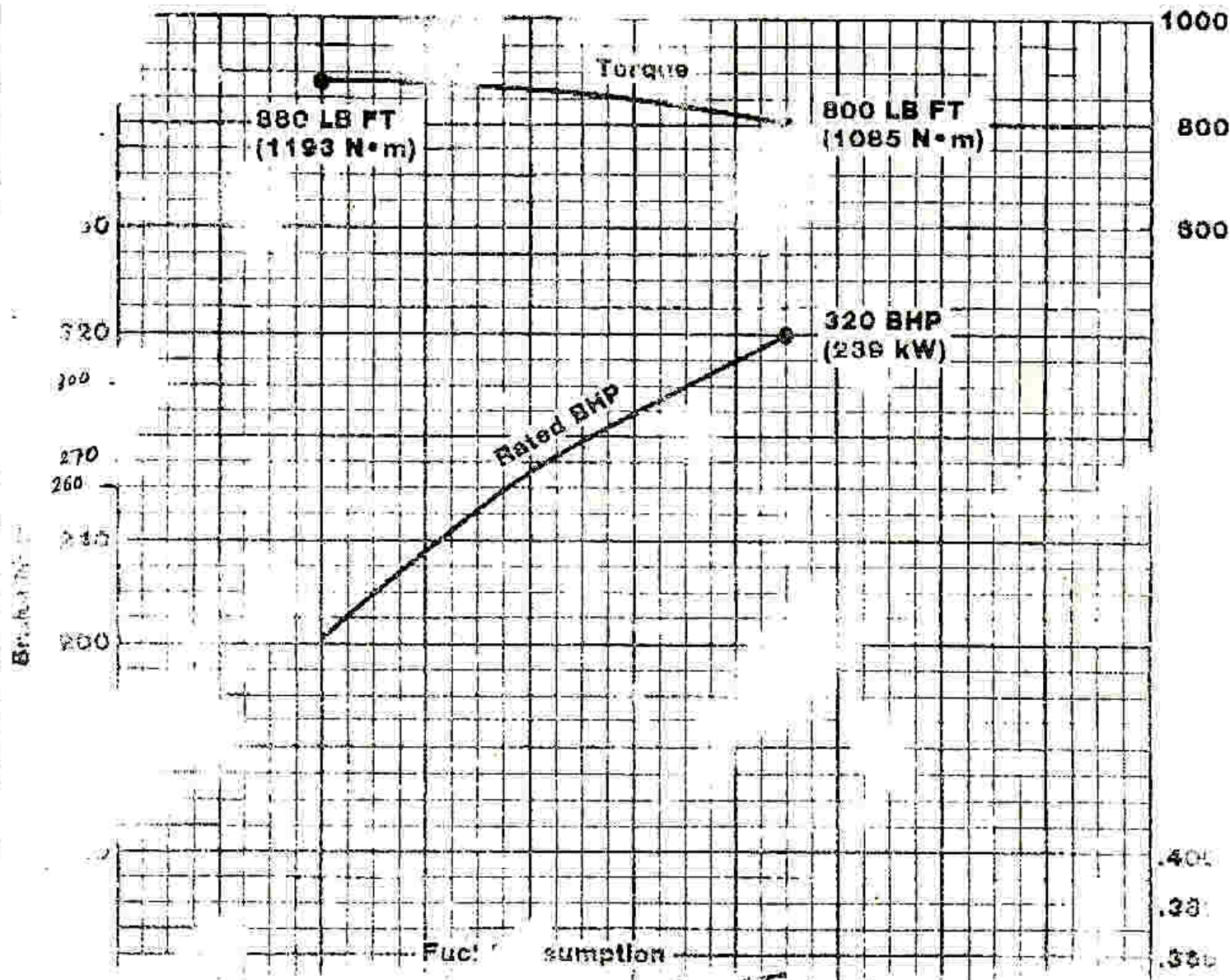
320 BHP @ 2100 RPM

880 LB-FT @ 1200 RPM

Injector: 9B85

Turbocharger: TV7511 (1.08 A/R)

ENGINE PERFORMANCE CURVE



21 MAYIS 1998

Engine Specification Data

References

Number of Cylinders Number and Location of Intakes Distribution Valve (s) Compression Ratio Piston Speed (ft/min) Valve Lift (inches) Intake Exhaust Cooling System Engine Type Lubrication	1053-P-80 E 4.64:1 (90 (183) 127) 552 (9.05) 17.01 1750 (583) Not Available Direct Injection 88.5° VEE 2 Cyls Turbocharged
---	---

Configuration

Turbocargas	TV753 (1" Ø 8 A R)
Charged Air Cleaning System	JWAC
Boiler Type	3/10/85
Boiler Output Rating	1354
Low High Speeds (RPM)	600
High Speed (RPM)	2250
2-8500 HP Load Limit	650 (2670)
Control System (V)	1503 (19000)
Control System (V)	Open
Low High Speeds (RPM)	3000

Physical Data

[illegible]

Table 1

[illegible]

Submittal System

[illegible]

Discussion

2. **Country of origin**
 3. **Manufacturer**
 4. **Model number**
 5. **Serial number**
 6. **Year**
 7. **Product description number**
 8. **Part number**
 9. **Speed of rotation**
 10. **Power**
 11. **Weight**
 12. **Dimensions**
 13. **Material**
 14. **Color**
 15. **Accessories**
 16. **Warranty**
 17. **Price**
 18. **Availability**
 19. **Comments**
 20. **Notes**
 21. **Images**
 22. **Links**
 23. **Related products**
 24. **Similar products**
 25. **Recommended products**
 26. **Popular products**
 27. **New products**
 28. **Bestselling products**
 29. **Lowest priced products**
 30. **Highest rated products**
 31. **Most reviewed products**
 32. **Most popular products**
 33. **Most sold products**
 34. **Most discounted products**
 35. **Most featured products**
 36. **Most recommended products**
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 38. **Most reliable products**
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 98. **Most compatible products**
 99. **Most compatible products**
 100. **Most compatible products**

Cooling 5 hr 4 min

Engine Head Inlet Water Temp (°F)	94.00 (65)
Engine Radiated Heat Blower (°F)	157.0 (27)
Coolant Flow/gallon (GPM)	150 (60)
Minimum Coolant Flow	90 ~ Radiated Flow
Telematics	
Start to Open - F(°C)	172 (321)
Fully Open - F(°C)	192 (355)
Minimum Water Pump Inlet Pressure in Hg (kPa)	
Conventional System	3.0 (40.4)
Auto Warmup System	0 (0)
Engine Coolant Capacity of IL	24.5 (23.2)
Maximum Pressure Cap (in Hg) (kPa)	8.0 (107.1)
Maximum Coolant Pump Inlet Pressure of Pressure Cap (in Hg) (kPa)	12 (33)
Maximum Top Tank Temperature - F(°C)	270 (132)
Minimum Top Tank Temperature - F(°C)	
Minimum Coolant Fill Rate/gallon (L/min)	
Radiated Flow Rate (L/min)	Not set
As Handled Air Inlet Temp	
Capacity of Inlet Air (L/min)	0.0 (0)
Air Handling Time	30 s
Shutdown Status - Prestart	Pre-Start Error

[illegible]

Exhaust System

Scientific Equipment	159.2
Scientific Instruments	159.2
Aluminum Alloys	159.2
Procedures	159.2
Recommended Equipment	159.2
Single	159.2
Double	159.2
Exhaustive	159.2
Pressure	159.2

Electrical System

Recommendation	Capacity ICCA @ 8°F
12 Vol System	
Above 32°F (D.L.A.)	750
Below 32°F (D.L.A.)	750
24 Vol System	
Above 32°F (D.L.A.)	150
Below 32°F (D.L.A.)	125
Variable Voltage System	
Starting Circuit	
12 Vol System	750
24 Vol System	150

Performance Data

Power (Gross) (hp)	70
Rated Speed (rpm)	5700
Peak Torque @ 1150V	114
Peak Torque Speed (rpm)	1500
EMC Filter (115V)	Optional
Size (mm)	
Rated Speed (115V)	2150
Peak Torque Speed (115V)	3000
Max. Output (kW)	3000
Power Available at 115V	1000
Wt. (kg)	1000

Engine Speed rpm	Power hp (kW)	Torque lb ft (Nm)	B/E/C R/C/B (L/min)
1100	309 (227)	802 (1085)	532 (214)
1500	305 (224)	821 (1113)	375 (21)
1580	286 (213)	840 (1138)	344 (206)
1600	268 (197)	807 (1075)	381 (209)
1800	224 (172)	773 (1059)	244 (203)
1900	207 (154)	801 (1079)	248 (203)

Detroit Diesel Engines

marine models



6V-92
291 hp

Low Profile
6V-92TA
475 hp
*Allison "M"
Marine Gear*

Low Profile
6V-92TA
475 hp
*Twin Disc 510A
Marine Gear*



Typical
Low Profile 6V-92TA
Marine Model

basic specifications

Basic Engine	6V-92	Low Profile 6V-92TA <i>Allison "M" Marine Gear</i>	Low Profile 6V-92TA <i>Twin Disc 510A Marine Gear</i>
Model-Port Starboard	8062-3000 8062-7000	8062-3401 8062-7401	8062-7402
Description	Naturally Aspirated	Turbocharged-Aftercooled	Turbocharged-Aftercooled
Number of Cylinders	6	6	6
Bore and Stroke	4.84 in × 5 in (123 mm × 127 mm)	4.84 in × 5 in (123 mm × 127 mm)	4.84 in × 5 in (123 mm × 127 mm)
Displacement	522 cu in (9.05 liters)	522 cu in (9.05 liters)	522 cu in (9.05 liters)
Compression Ratio	19 to 1	17 to 1	17 to 1
Net Weight (dry)	2570 lbs (1166 kg)	3140 lbs (1424 kg)	3140 lbs (1424 kg)

power specifications

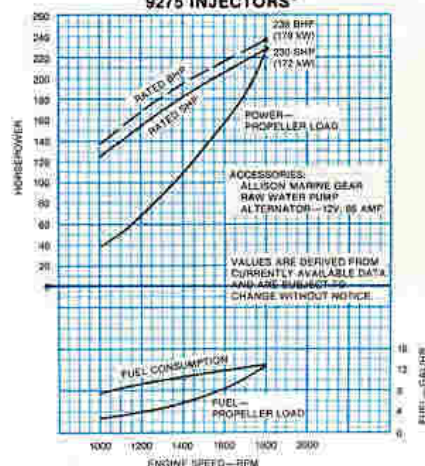
Continuous Injectors	9275	No continuous rating is currently available for the 6V-92TA	No continuous rating is currently available for the 6V-92TA
Rated Gross Power	239 BHP (178 kW) @ 1800 RPM*		
Rated Net Power	230 SHP (172 kW) @ 1800 RPM		
Intermittent Injectors	9280	9290	9290
Rated Gross Power	270 BHP (201 kW) @ 2100 RPM*	335 BHP (250 kW) ✓	335 BHP (250 kW)
Rated Net Power	260 SHP (194 kW) @ 2100 RPM*	325 SHP (242 kW) @ 2100 RPM*	325 SHP (242 kW) @ 2100 RPM*
Maximum Injectors	9285	9225	9225
Rated Gross Power	291 BHP (217 kW) @ 2300 RPM†	475 BHP (354 kW) ✓	475 BHP (354 kW)
Rated Net Power	280 SHP (209 kW) @ 2300 RPM†	465 SHP (347 kW) @ 2300 RPM†	458 SHP (342 kW) @ 2300 RPM†

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

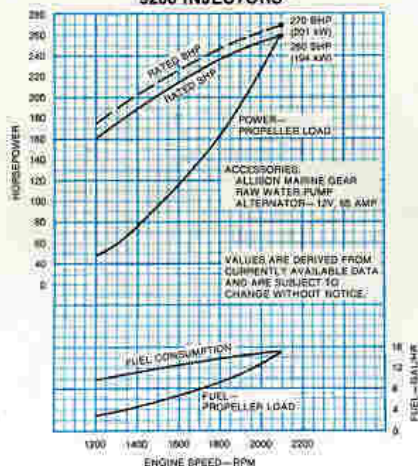
†SAE: 77°F (25°C) and 29.31 in Hg (99 kPa) Barometer (Dry).

6V-92

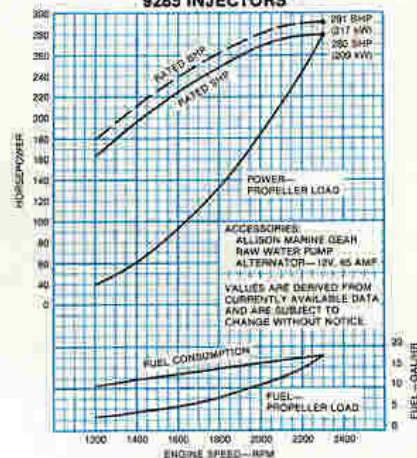
**MODEL 6V-92
MARINE CONTINUOUS RATING
9275 INJECTORS***



**MODEL 6V-92
MARINE INTERMITTENT RATING
9280 INJECTORS***



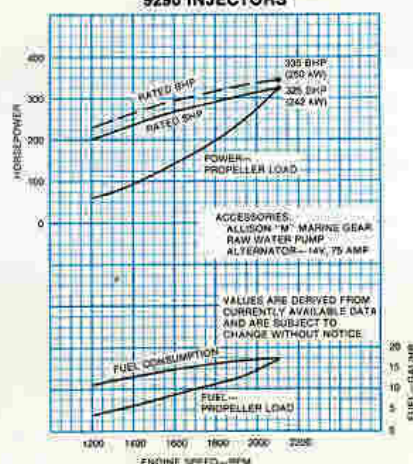
**MODEL 6V-92
MARINE MAXIMUM RATING
9285 INJECTORS***



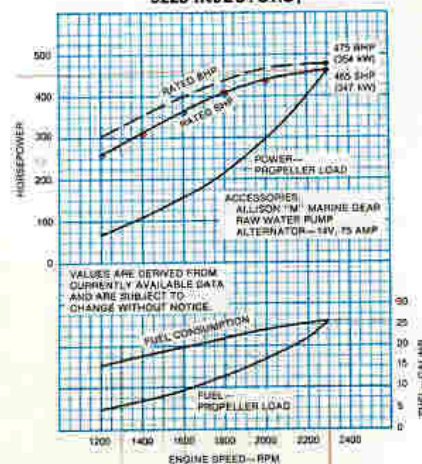
6V-92TA Low Profile (Allison "M" Marine Gear)

No continuous rating is currently available for the 6V-92TA

**MODEL 6V-92TA
MARINE INTERMITTENT RATING
9290 INJECTORS***



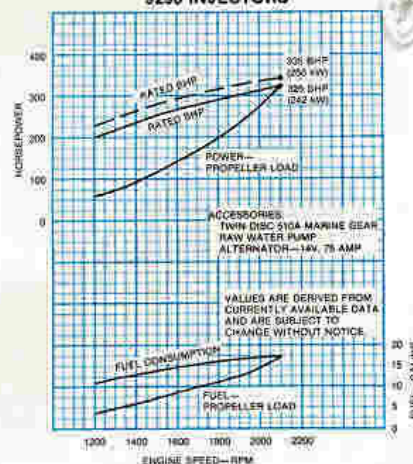
**MODEL 6V-92TA
MARINE MAXIMUM RATING
9225 INJECTORS†**



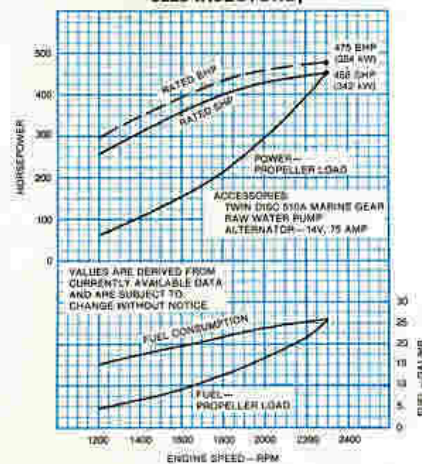
6V-92TA Low Profile (Twin Disc 510A Marine Gear)

No continuous rating is currently available for the 6V-92TA

**MODEL 6V-92TA
MARINE INTERMITTENT RATING
9290 INJECTORS***



**MODEL 6V-92TA
MARINE MAXIMUM RATING
9225 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

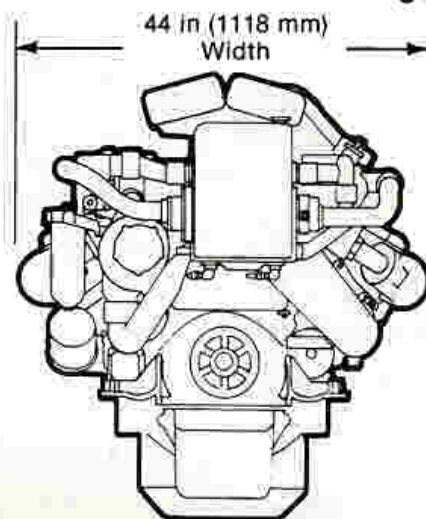
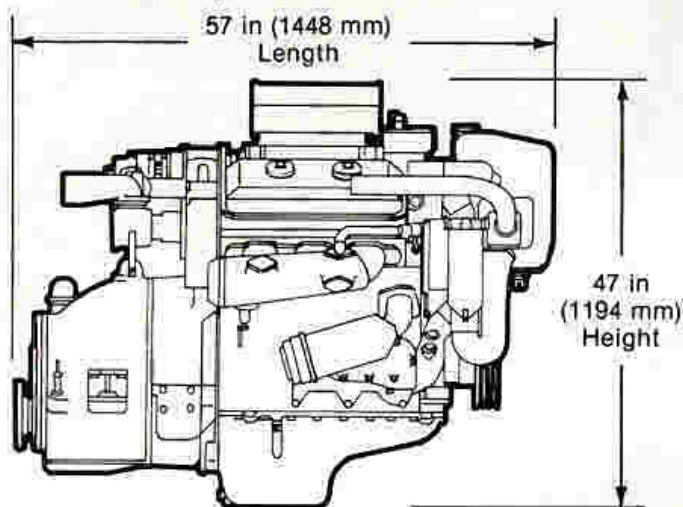
the ratings e.g., maximum, intermittent and continuous; varies with type of vessel in which the engine is installed. See your Detroit Diesel Allison representative for the rating that will apply to your vessel.

*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 8062-3000, 8062-7000

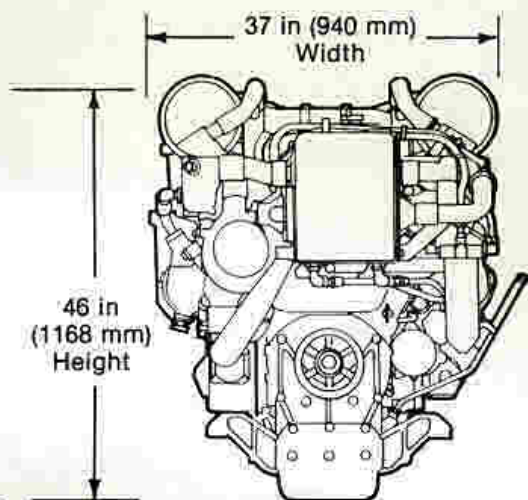
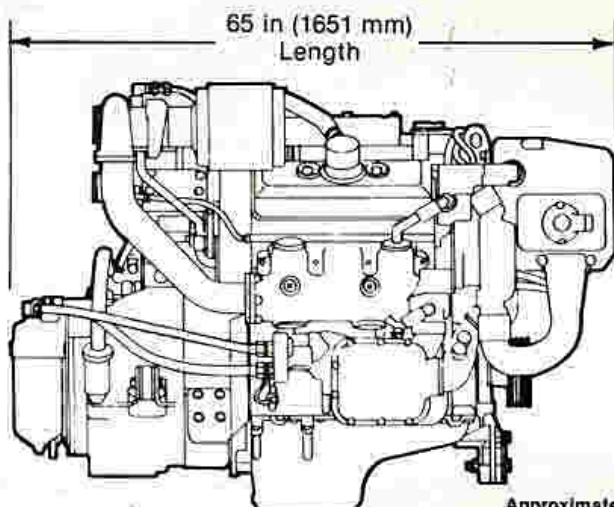
6V-92



Approximate dimensions shown.
For complete dimensional information refer to installation drawing 2SA435.

Model 8062-3401, 8062-7401

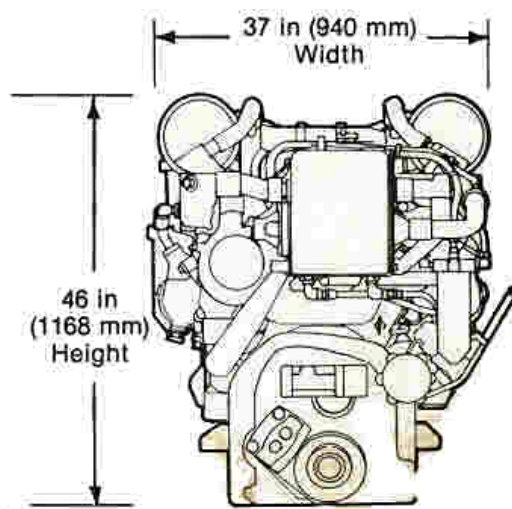
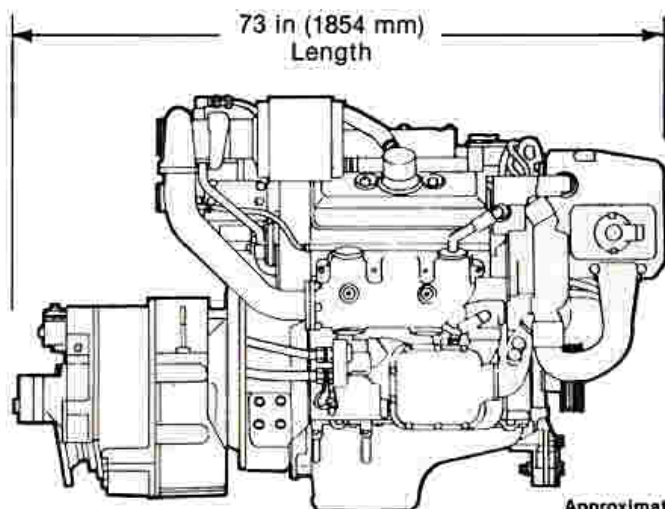
6V-92TA Low Profile
Allison "M" Marine Gear



Approximate dimensions shown.
For complete dimensional information, refer to installation drawing 2SA447.

Model 8062-7402

6V-92TA Low Profile
Twin Disc 510A Marine Gear



Approximate dimensions shown.

standard equipment

Air Inlet Housing

Air Silencer

Aftercooler—5V-92TA only

Alternator—12 volt, 85 amp, 6V/92; 14 volt, 75 amp, 6V-92TA

Crankshaft Pulley

Engine Mounts—Resilient mounts for both engine and marine gear

Exhaust Manifold—Water cooled

Flywheel Housing—SAE #2

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, hourmeter, tachometer, oil pressure gauge and water temperature gauge for both engine and marine gear

Lube Oil Cooler

Lube Oil Filter—Full-flow, spin-on

Marine Gear—Allison "M" type, hydraulic reverse and reduction gear, 2 to 1 ratio, Models 8062-3000, 8062-7000, 8062-5401 and 8062-7401, Twin Disc 510A, hydraulic reverse and reduction gear, 2 to 1 ratio, Model 8062-7402 only

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

Starting Motor—12 volt, high output

Turbocharger—Twin turbochargers, 6V-92TA only

Water Filter—Fresh water filter with 20-gallon (113.5 liters) capacity

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

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San Diego, Victoria, Australia
(613) 7267-2511

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Toronto, Ontario, Canada
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(713) 265-0007

Manila City, Mexico
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Detroit Diesel Allison

Division of General Motors

13400 Outer Drive, West Detroit, Michigan 48220-4101
(313) 592-5000

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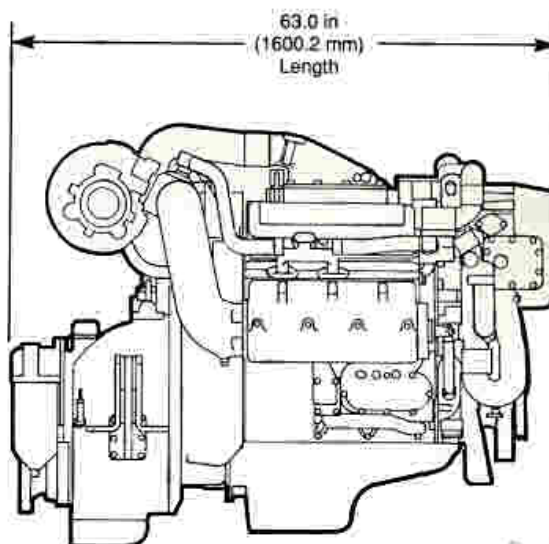
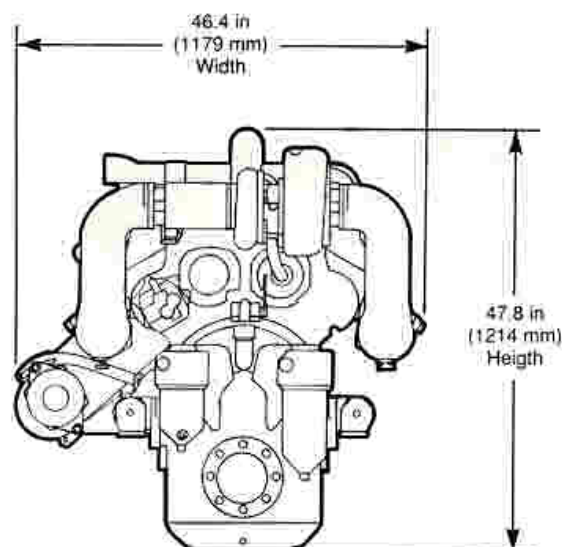
Santiago, Chile
Sao Paulo, Brazil

DETROIT DIESEL



6V-92TA
355 BHP

Marine Commercial
Intermittent



General Specifications

Basic Engine	6V-92TA
Model—Port	8062-3407
Starboard	8062-7407
Description	Turbocharged-Aftercooled with Bypass Blower
Number of Cylinders	6
Bore and Stroke	4.84 in x 5.00 in (123 mm x 127 mm)
Displacement	552 cu in (9.05 liters)
Compression Ratio	17.0 to 1
Weight (dry)	3540 lbs (1606 kg)

Rated Power Output—Intermittent

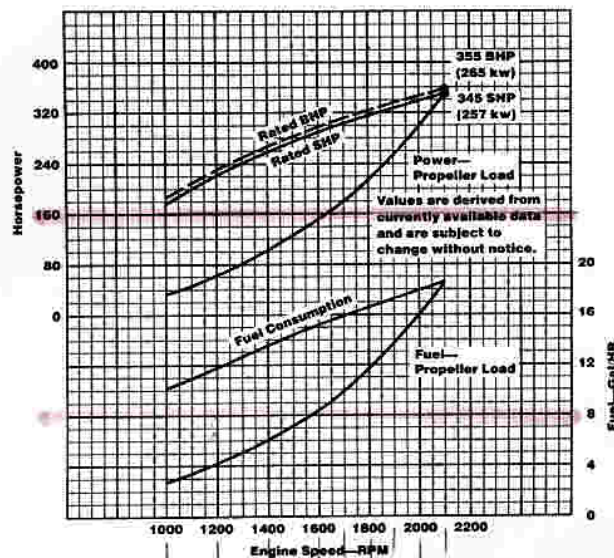
Injectors	7G75
Gross Power	355 BHP (265 kW) @ 2100 RPM
Net Power	345 SHP (257 kW) @ 2100 RPM

Equipment Specifications

Air Inlet Housing—With manual or electrical shutdown
Aftercooler—Three-pass
Alternator—24 volt, 60 amp
Cooling System—Low profile cast iron expansion tank
Crankcase vapor collectors with silencers
Engine Mounts—Solid mounts for both engine and marine gear
Exhaust System—Fresh water-cooled manifolds and turbine housing
Factory Installed Marine Gear Option—DD 5091
Flywheel Housing—SAE #2
Front PTO—60 HP
Fuel System—Cam operated unit injectors with low pressure USCG type A external hoses and fuel filters
Governor—Variable speed
Lube Oil Filter—Full flow
Oil Pan—Cast iron, designed for 0°-15° inclination angle, rear sump
Starting Motor—24 volt

Performance Curve

Model 6V-92TA—Intermittent



Rating Explanation

RATED BHP Basic engine gross horsepower.

RATED SHP Net power available at the marine gear output flange.

PROPELLER LOAD Indicates horsepower absorbed by a typical fixed pitch propeller.

POWER OUTPUT guaranteed within 5% at rated ambient conditions.

MARINE INTERMITTENT The marine intermittent rating applies to medium to high speed commercial boats that operate at moderate to low load factors. These are boats intended for commercial service where 3,000 hours or less (3,500 hours for Series 149 engine) are accumulated annually. Normal or continuous cruising RPM should be limited to 95% of rated RPM, with intermittent use of rated power permitted. Typical examples include crewboats, water taxis, pilot boats, ferryboats, lobster boats, party fishing boats, charter sportfisherman, and patrol boats.

Consult your authorized Detroit Diesel Corporation representative for the rating that will apply to your vessel.

DETROIT DIESEL



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Telephone: 313-592-5000

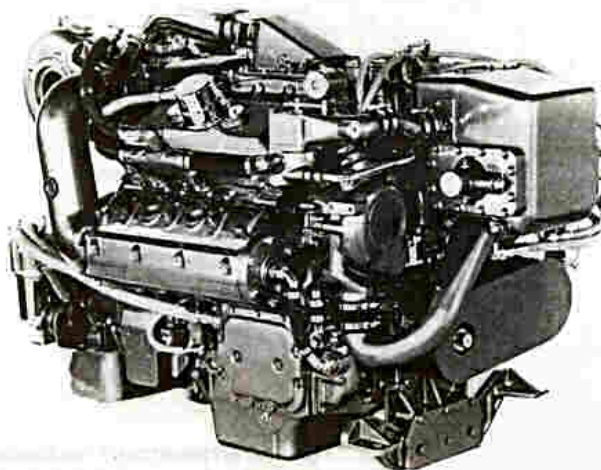
FAX: 313-592-7288



Detroit Diesel Allison Marine Model



**6V-92TA
450 BHP
Pleasure Craft**



General Specifications

Basic Engine	6V-92TA
Model—Port	8062-3404
Starboard	8062-7404
Description	Turbocharged-Aftercooled with Bypass Blower
Number of Cylinders	6
Bore and Stroke	4.84 in x 5.00 in (123 mm x 127 mm)
Displacement	552 cu in (9.05 liters)
Compression Ratio	17.0 to 1
Weight (dry)	3275 lbs (1486 kg)

Rated Power Output—Maximum

Injectors	M15
Gross Power	450 BHP (336 kW) @ 2300 RPM
Net Power	435 SHP (325 kW) @ 2300 RPM

Equipment Specifications

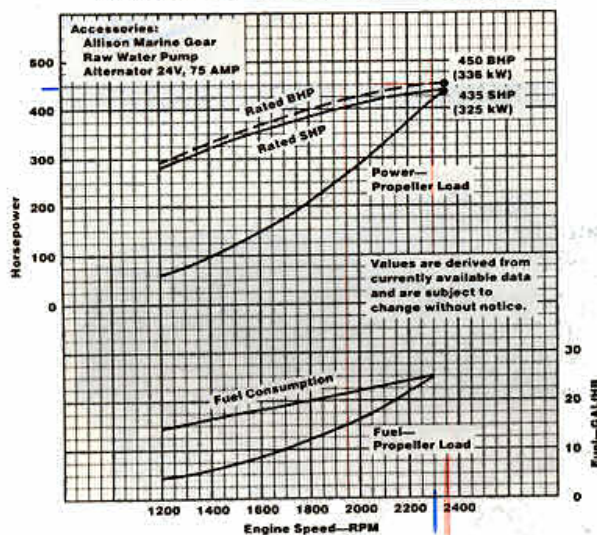
Air Inlet Housing—With manual or electrical shutdown
Air Silencer
Aftercooler—Two-pass with precooled coolant supply
Alternator—24 volt, 75 amp
Cooling System—Low profile cast iron expansion tank and raw water pump
Crankshaft Pulley—3 grooves, .50 in wide
Engine Mounts—Resilient mounts for both engine and marine gear
Exhaust System—Fresh water cooled manifolds and turbine housing; port or starboard exhaust connection
Flywheel Housing—SAE #2
Fuel System—Cam operated unit injectors with low pressure USCG type A external hoses, fuel filters and cooler
Governor—Variable speed
Lube Oil Filter—Full flow
Marine Gear—Allison M (1.11, 1.52, 1.74, 2.05:1 reduction ratios)
Oil Pan—Cast iron, designed for 0°-15° inclination angle, rear sump
Starting Motor—24 volt

Rating conditions: ISO 3046, SAE J1349, SAE J1228
77°F (25°C) and 29.31 in. Hg. (99kPa) Barometer (Dry)

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

Performance Curve

Model 6V-92TA—Maximum



Rating Explanation

RATED BHP Basic engine gross horsepower.

Rated SHP Net power available at the marine gear output flange.

PROPELLER LOAD indicates horsepower absorbed by a typical fixed pitch propeller.

POWER OUTPUT guaranteed within 5% at rated ambient conditions.

MARINE MAXIMUM The marine maximum rating applies to high performance boats where speed is of primary importance and overall load factors are low. Normal or continuous cruising RPM should be limited to 90% of rated engine RPM, and the use of full rated power should be limited to 10% (average) of operating time. This rating is normally reserved for privately-owned yachts in non-revenue applications with an average annual hour accumulation of 500 hrs.

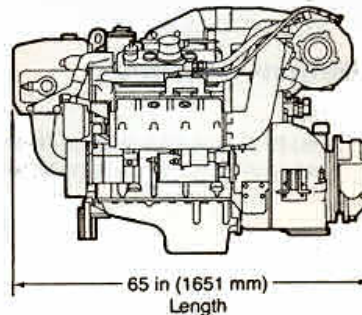
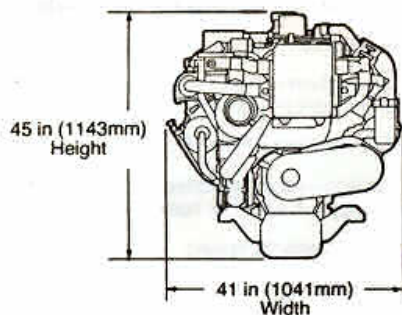
MARINE INTERMITTENT- MAXIMUM The intermittent-maximum rating is reserved for privately-owned yachts with long-range cruising capability and/or used in seasonal charter operation. Normal or continuous cruising RPM should be limited to 90% of the rated engine RPM and the use of full rated power should be limited to 10% (average) of operating time. All boats in this category are limited to a maximum of 1,000 hours per year.

NOTE: Other boats; e.g., fire, police, with an overall duty cycle similar to maximum or intermittent-maximum may be applied at the appropriate rating.

Consult your authorized Detroit Diesel Allison representative for the rating that will apply to your vessel.

Dimensional Drawing

Model 8062-3404
6V-92TA



Approximate dimensions shown. For complete dimensional information, refer to installation drawing 2SA519.



Detroit Diesel Allison

Division of General Motors

13400 Outer Drive, West, Detroit, Michigan 48239-4001
(313/592-5000)

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Elmadağ - İSTANBUL
Tel. : 146 91 08 - 130 38 00/01
Tlx. : 26208 Kbl tr.

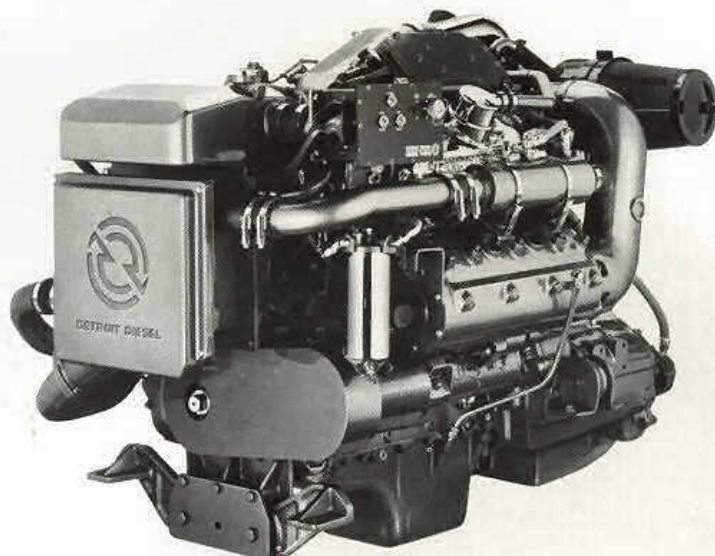
Tarlabası Caddesi, 12
Taksim - İSTANBUL
Tel. : 155 13 16 - 155 13 18
Tlx. : 24339 Kbc tr.
Fax : 155 21 53

DETROIT DIESEL



6V-92TA
550 BHP

Marine Pleasure Craft



GVC TAC

General Specifications

Basic Engine	6V-92TA
Model—Port	8062-3403
Starboard	8062-7403
Description	Turbocharged-Aftercooled with Bypass Blower
Number of Cylinders	6
Bore and Stroke	4.84 in x 5.00 in (123 mm x 127 mm)
Displacement	552 cu in (9.05 liters)
Compression Ratio	17.0 to 1
Weight (dry)	2690 lbs (1223 kg)

Rated Power Output—Maximum 145 Injector

Gross Power	550 BHP (410 kW) @ 2300 RPM
Net Power	535 SHP (399 kW) @ 2300 RPM

Rated Power Output—Intermittent-Maximum

Gross Power	475 BHP (354 kW) @ 2300 RPM
Net Power	455 SHP (339 kW) @ 2300 RPM

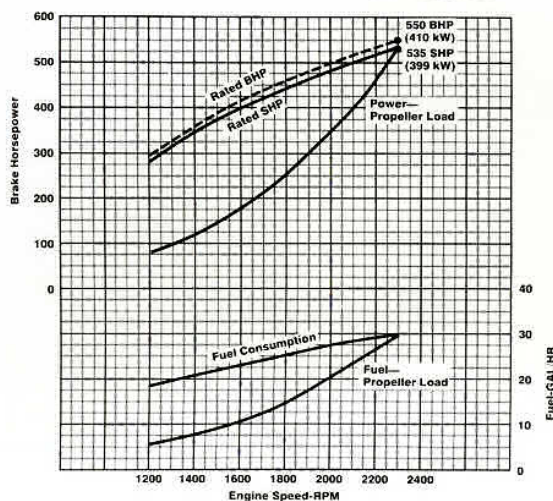
Equipment Specifications

Air Inlet Housing—With manual or electrical shutdown
Aftercooler—Two-pass with precooled coolant supply
Alternator—24 volt, 75 amp
Cooling System—Low profile aluminum expansion tank with raw water pump
Crankcase vapor collectors with silencers
Crankshaft Pulley—3 grooves, .50 inch wide
Engine Mounts—Resilient mounts for both engine and marine gear
Exhaust System—Fresh water-cooled manifolds and turbine housing; port or starboard exhaust connection
Flywheel Housing—SAE #2
Fuel System—Cam operated unit injectors with low pressure USCG type A external hoses, fuel filters and cooler
Governor—Variable speed
Lube Oil Filter—Full flow
Marine Gear—Available with Detroit Diesel-5081 (1.51, 1.97 reduction ratios)
Oil Pan—Cast iron, designed for 0°-15° inclination angle, rear sump
Starting Motor—24 volt

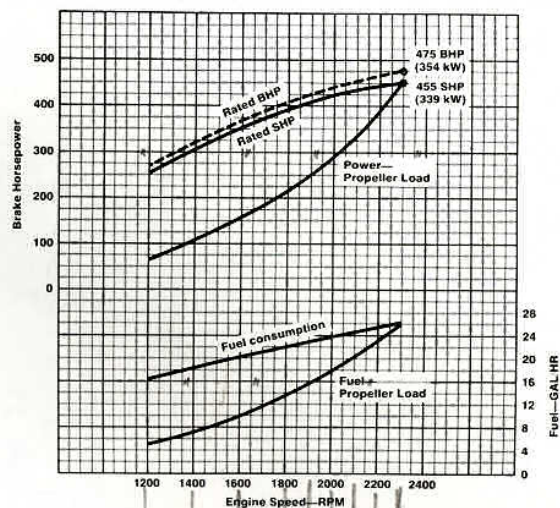
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Performance Curves

Model 6V-92TA—Maximum



Model 6V-92TA—Intermittent-Maximum



Rating Explanation

RATED BHP Basic engine gross horsepower.

Rated SHP Net power available at the marine gear output flange.

PROPELLER LOAD indicates horsepower absorbed by a typical fixed pitch propeller.

POWER OUTPUT guaranteed within 5% at rated ambient conditions.

MARINE MAXIMUM The marine maximum rating applies to high performance boats where speed is of primary importance and overall load factors are low. Normal or continuous cruising RPM should be limited to 90% of rated engine RPM, and the use of full rated power should be limited to 10% (average) of operating time. This rating is normally reserved for privately-owned yachts in non-revenue applications with an average annual hour accumulation of 500 hrs.

MARINE INTERMITTENT-MAXIMUM The intermittent-maximum rating is reserved for privately-owned yachts with long-range cruising capability and/or used in seasonal charter operation. Normal or continuous cruising RPM should be limited to 90% of the rated engine RPM and the use of full rated power should be limited to 10% (average) of operating time. All boats in this category are limited to a maximum of 1,000 hours per year.

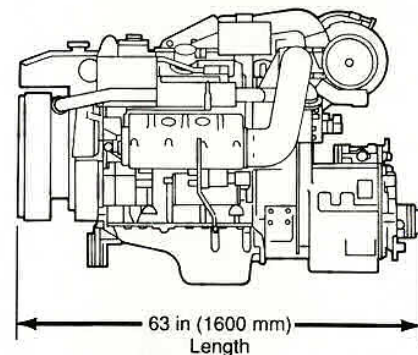
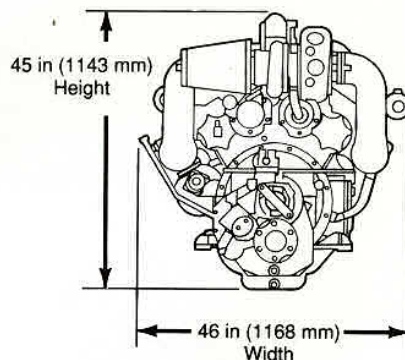
NOTE: Other boats; e.g., fire, police, with an overall duty cycle similar to maximum or intermittent-maximum may be applied at the appropriate rating.

Consult your authorized Detroit Diesel Corporation representative for the rating that will apply to your vessel.

Dimensional Drawing

Model 8062-3403
6V-92TA

Approximate dimensions shown.
For complete dimensional information,
refer to installation drawing
2SA519 and 2SA514.



DETROIT DIESEL
CORPORATION



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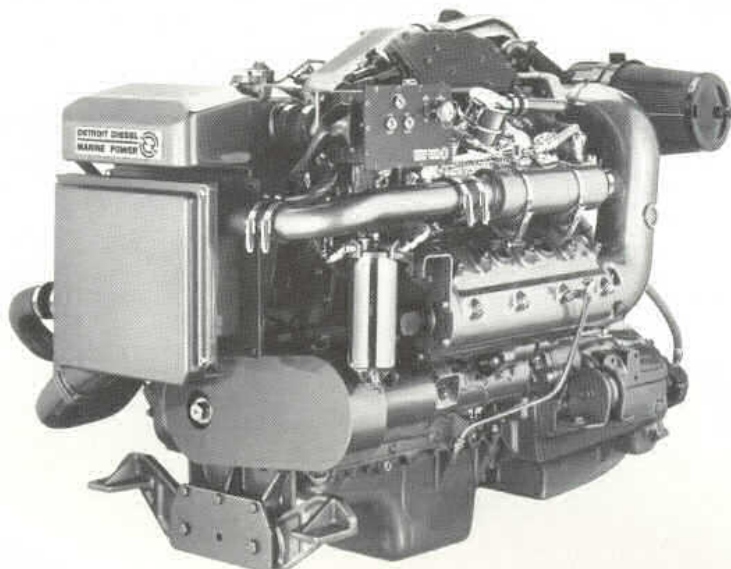


DETROIT DIESEL



**6V-92TA DDEC
565 BHP**

Marine Pleasure Craft



General Specifications

Basic Engine Model	6V-92TA 8062-7B01 Port 8062-7B00 Starboard
Description	Turbocharged-Aftercooled with Bypass Blower
Control	DDEC
Number of Cylinders	6
Bore and Stroke	4.84 in x 5.00 in (123 mm x 127 mm)
Displacement	552 cu in (9.05 liters)
Compression Ratio	15.0 to 1
Weight (dry)	3210 lbs (1456 kg)

Rated Power Output—Maximum

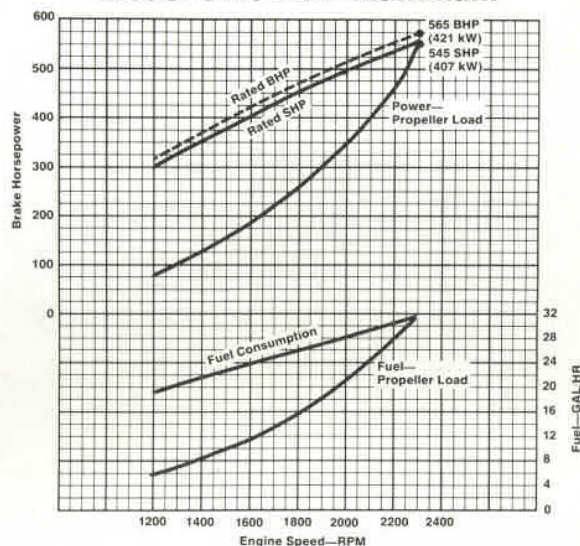
Gross Power	565 BHP (421 kW) @ 2300 RPM
Net Power	545 SHP (407 kW) @ 2300 RPM

Equipment Specifications

Air Inlet Housing—With manual or electrical shutdown
Air Silencer
Aftercooler—Two-pass with precooled coolant supply
Alternator—24 volt, 75 amp
Cooling System—Low profile aluminum expansion tank with raw water pump
Crankshaft Pulley—3 grooves, .50 inch wide
DDEC—Detroit Diesel Electronic Controls
Engine Mounts—Resilient mounts for both engine and marine gear
Exhaust System—Fresh water-cooled manifolds and turbine housing; port or starboard exhaust connection
Flywheel Housing—SAE #2
Fuel System—Cam operated electronic unit injectors with low pressure USCG type A external hoses, fuel filters and cooler
Lube Oil Filter—Full flow
Marine Gear—Detroit Diesel-5091 (1.17, 1.45, 1.71, 2.04 reduction ratios)
Oil Pan—Cast iron, designed for 0°-15° inclination angle, rear sump
Starting Motor—24 volt

Performance Curve

Model 6V-92TA—Maximum



Rating Explanation

RATED BHP Basic engine gross horsepower.

Rated SHP Net power available at the marine gear output flange.

PROPELLER LOAD indicates horsepower absorbed by a typical fixed pitch propeller.

POWER OUTPUT guaranteed within 5% at rated ambient conditions.

MARINE MAXIMUM The marine maximum rating applies to high performance boats where speed is of primary importance and overall load factors are low. Normal or continuous cruising RPM should be limited to 90% of rated engine RPM, and the use of full rated power should be limited to 10% (average) of operating time. This rating is normally reserved for privately-owned yachts in non-revenue applications with an average annual hour accumulation of 500 hrs.

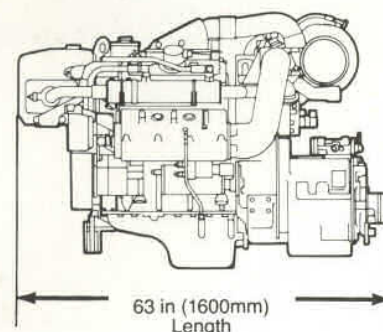
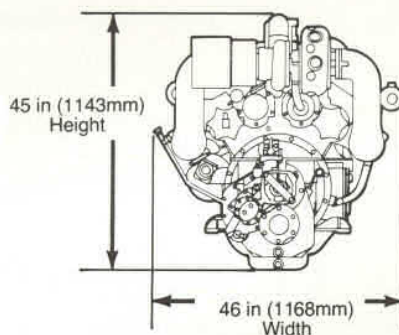
NOTE: Other boats; e.g., fire, police, with an overall duty cycle similar to maximum or intermittent-maximum may be applied at the appropriate rating.

Consult your authorized Detroit Diesel Corporation representative for the rating that will apply to your vessel.

Dimensional Drawing

Model 8062-7B00
6V-92TA

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



DETROIT DIESEL

CORPORATION



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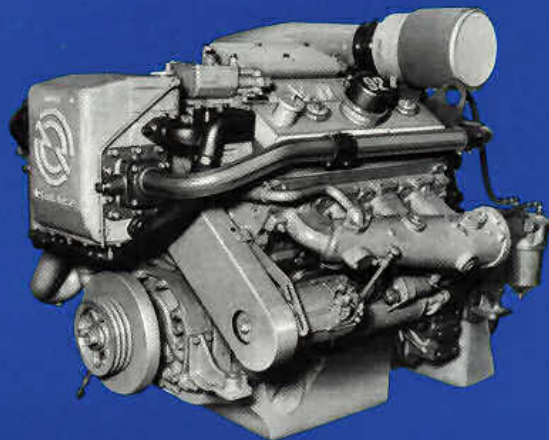
Detroit Diesel Engines

marine models

8V-92
388 hp

Low Profile
8V-92TI
650 hp
*Allison MH
Marine Gear*

Low Profile
8V-92TI
650 hp
*Twin Disc 514
Marine Gear*



Typical
Low Profile 8V-92
Marine Model

basic specifications

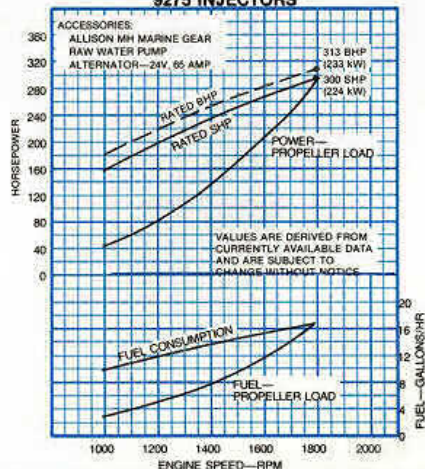
Basic Engine	8V-92	Low profile 8V-92TI <i>Allison MH Marine Gear</i>	Low profile 8V-92TI <i>Twin Disc 514 Marine Gear</i>
Model-Port	8082-3000	8082-3301	8082-3302
Starboard	8082-7000	8082-7301	8082-7302
Description	Naturally Aspirated	Turbocharged-Intercooled	Turbocharged-Intercooled
Number of Cylinders	8	8	8
Bore and Stroke	4.84 in × 5 in (123mm × 127mm)	4.84 in × 5 in (123mm × 127mm)	4.84 in × 5 in (123mm × 127mm)
Displacement	736 cu in (12.07 liters)	736 cu in (12.07 liters)	736 cu in (12.07 liters)
Compression Ratio	19 to 1	17 to 1	17 to 1
Net Weight (dry)	3480 lbs (1566 kg)	3815 lbs (1730 kg)	4440 lbs (2014 kg)

power specifications

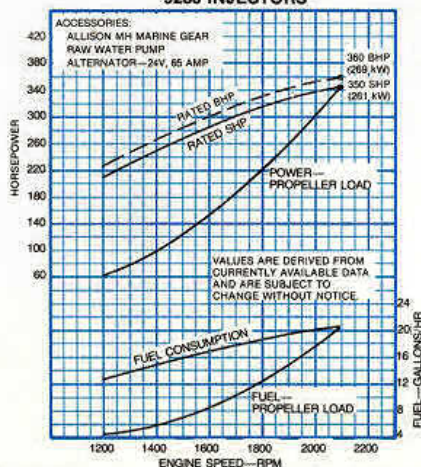
Injectors	9275 (Continuous)	9290 (Intermittent)	No continuous rating is currently available for the 8V-92TI.
Rated Gross Power	313 BHP (233 kW) @ 1800 RPM*	471 BHP (351 kW) @ 2100 RPM†	
Rated Net Power	300 SHP (224 kW) @ 1800 RPM*	460 SHP (343 kW) @ 2100 RPM†	
Injectors	9280 (Intermittent)	9215 (Maximum)	9290 (Intermittent)
Rated Gross Power	360 BHP (269 kW) @ 2100 RPM*	600 BHP (448 kW) @ 2300 RPM†	471 BHP (351 kW) @ 2100 RPM†
Rated Net Power	350 SHP (261 kW) @ 2100 RPM*	585 SHP (436 kW) @ 2300 RPM†	450 SHP (336 kW) @ 2100 RPM†
Maximum Injectors	9285	9225	9225
Rated Gross Power	388 BHP (289 kW) @ 2300 RPM*	650 BHP (485 kW) ✓ @ 2300 RPM†	650 BHP (485 kW) @ 2300 RPM†
Rated Net Power	375 SHP (280 kW) @ 2300 RPM*	635 SHP (474 kW) @ 2300 RPM†	625 SHP (466 kW) @ 2300 RPM†

*85 °F (29.4 °C) and 29.00 in Hg (98.19 kPa) Barometer (Dry). †SAE: 77 °F (25 °C) and 29.31 in Hg (99 kPa) Barometer (Dry).

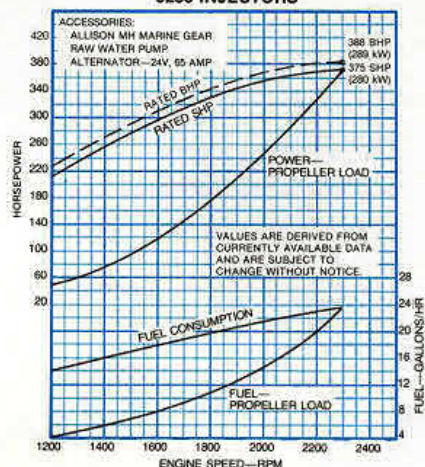
**MODEL 8V-92
MARINE CONTINUOUS RATING
9275 INJECTORS***



**MODEL 8V-92
MARINE INTERMITTENT RATING
9280 INJECTORS***

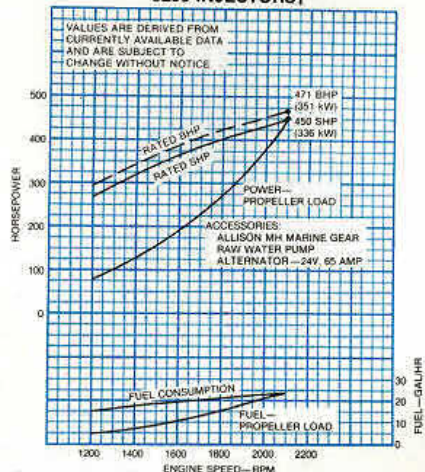


**MODEL 8V-92
MARINE MAXIMUM RATING
9285 INJECTORS***

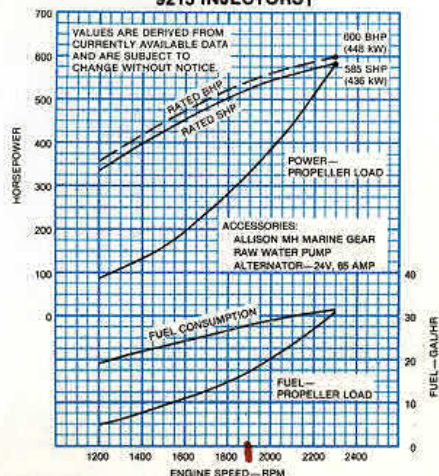


8V-92TI Low Profile (Allison MH Marine Gear)

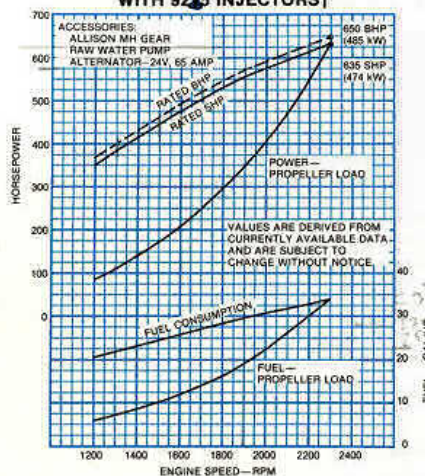
**MODEL 8V-92TI
MARINE INTERMITTENT RATING
9290 INJECTORS†**



**MODEL 8V-92TI
MARINE MAXIMUM RATING
9215 INJECTORS†**

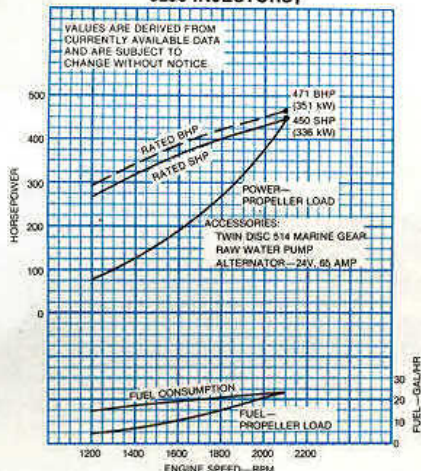


**MODEL 8V-92TI
MARINE MAXIMUM RATING
WITH 9245 INJECTORS†**

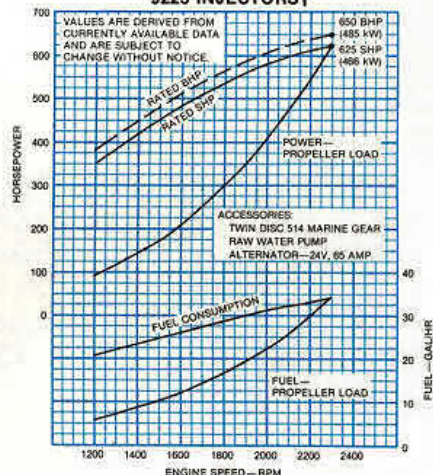


8V-92TI Low Profile (Twin Disc 514 Marine Gear)

**MODEL 8V-92TI
MARINE INTERMITTENT RATING
9290 INJECTORS†**



**MODEL 8V-92TI
MARINE MAXIMUM RATING
9225 INJECTORS†**



No continuous rating is currently available for the 8V-92TI

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.

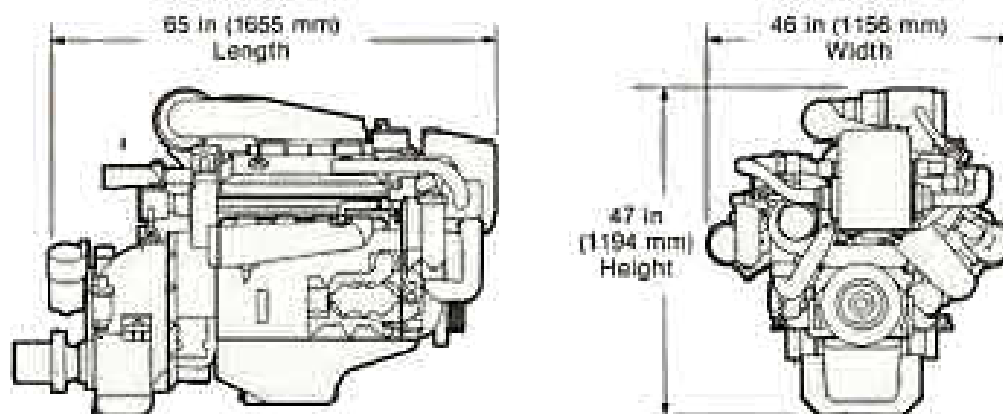
POWER OUTPUT guaranteed within 5%

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)

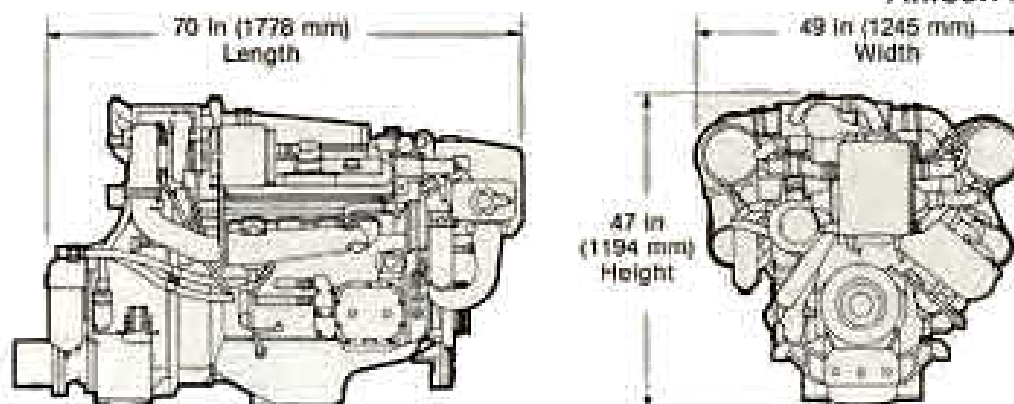
†Rating conditions of SAE: 77°F (25°C) and 29.31 in Hg (99 kPa) Barometer (Dry)



Approximate dimensions shown.
For complete dimensional information, refer to installation drawing 25A436.

Model 8082-3301, 8082-7301

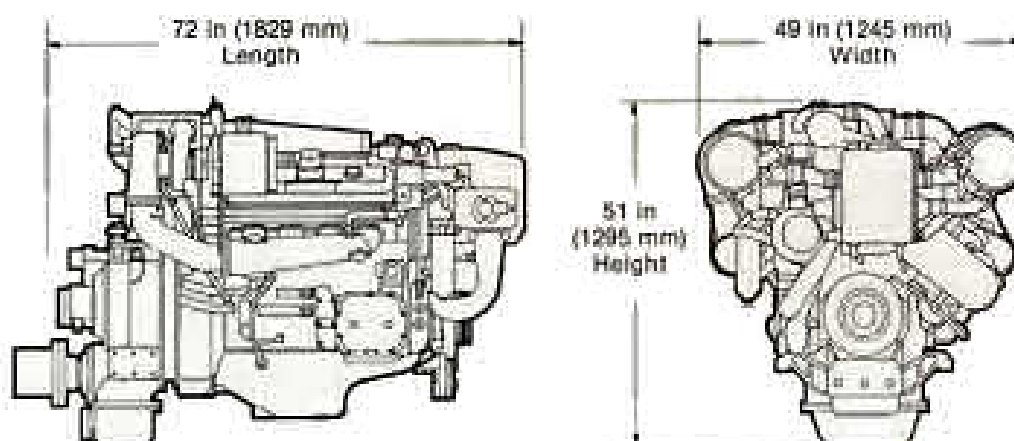
8V-92TI Low Profile
Allison MH Marine Gear



Approximate dimensions shown.
For complete dimensional information, refer to installation drawing 25A494.

Model 8082-3302, 8082-7302

8V-92TI Low Profile
Twin Disc 514 Marine Gear



Approximate dimensions shown.

standard equipment

Air Inlet Housing

Air Silencer

Alternator—24 volt, 65 amp

Crankshaft Pulley

Engine Mounts—Includes mounts for both engine and marine gear

Exhaust Manifold—Water cooled

Flywheel Housing—SAE #2

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, hourmeter, tachometer, water temperature gauge, and oil pressure gauges for both engine and marine gear

Intercooler—8V-92Ti only

Lube Oil Cooler

Lube Oil Filter—Full-flow, spin-on

Marine Gear—Allison "MH" type, hydraulic reverse and reduction gear, 1.97 to 1 ratio, 8V-92; Allison "MH" type, hydraulic reverse and reduction gear, 1.51 to 1 ratio, 8V-92Ti; "Twin Disc 514" type, hydraulic reverse and reduction gear, 1.54 to 1 ratio

Oil Pan—Cast iron, designed for 0°-15° inclination angle, rear sump

Starting Motor—24 volt

Turbocharger—Twin turbos (TV7101), 8V-92Ti only

Vibration Damper—Single, heavy, viscous

Water Filter—Fresh water filter with 30-gallon (113.5 liters) capacity

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

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Detroit Diesel Allison

Division of General Motors

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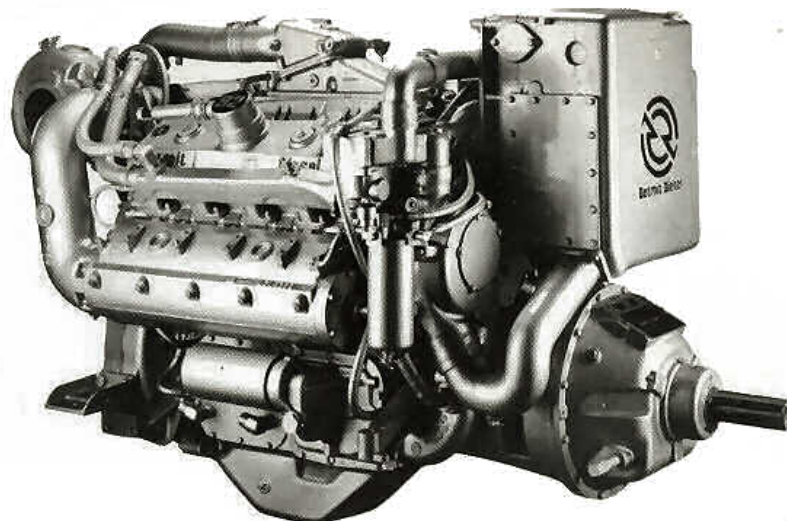
Brisbane, Australia
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Lima, Peru
Santiago, Chile
Sao Paulo, Brazil

DETROIT DIESEL



8V-92TA
365 BHP

Marine Commercial



30 JUN 1996

General Specifications

Basic Engine	8V-92TA
Model—Port	8082-7403
Description	Turbocharged-Aftercooled with Bypass Blower
Number of Cylinders	8
Bore and Stroke	4.84 in x 5.00 in (123 mm x 127 mm)
Displacement	736 cu in (12.1 liters)
Compression Ratio	17.0 to 1
Weight (dry)	5000 lbs (2268 kg)

Rated Power Output—Maximum

Injectors	9E80
Gross Power	365 BHP (272 kW) @ 1800 RPM
Net Power	350 SHP (261 kW) @ 1800 RPM

Equipment Specifications

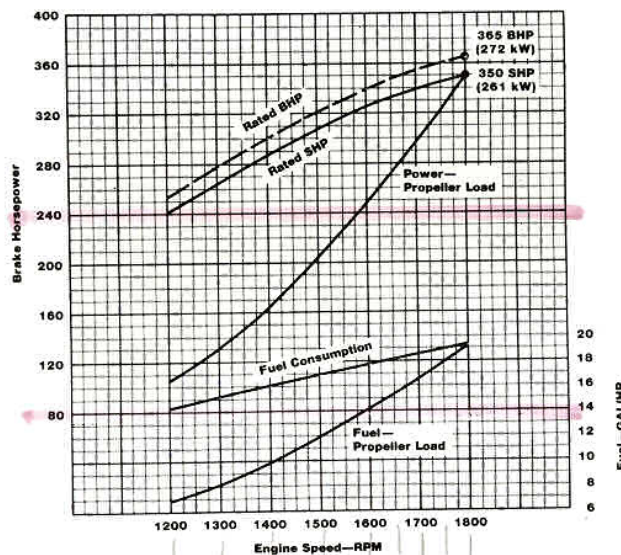
Air Inlet Housing—With manual shutdown
Aftercooler—Two-pass jacket coolant supply
Alternator—24 volt, 65 amp, flange mounted
Cooling System—Keel cool with cast iron expansion tank
Crankshaft Pulley—3 grooves, .50 inch wide (available w/o FPTO)
Exhaust System—Fresh water-cooled manifolds and turbine housings
Flywheel Housing—SAE #1
Fuel System—Cam operated unit injectors with low pressure USCG type A external hoses, fuel filters and cooler
Governor—Variable speed
Lube Oil Filter—Full flow
Marine Gear—Twin Disc MG-514 (3, 4.5, 5.16 & 6:1 reduction ratios)
Oil Pan—Cast iron, designed for 0°-12.5° inclination angle, rear sump
Starting Motor—24 volt

Rating conditions: ISO 3046, SAE J1349, SAE J1228
77°F (25°C) and 29.31 in. Hg. (99 kPa) Barometer (Dry)

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

Performance Curve

Model 8V-92TA—Continuous



Rating Explanation

RATED BHP Basic engine gross horsepower.

RATED SHP Net power available at the marine gear output flange.

PROPELLER LOAD Indicates power absorbed by a typical fixed pitch propeller.

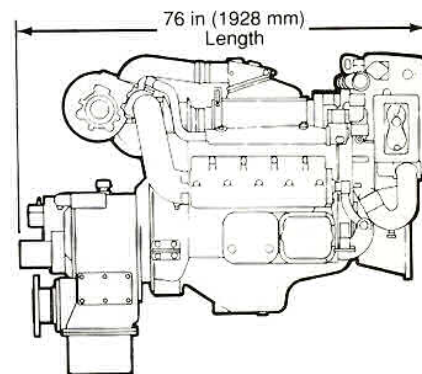
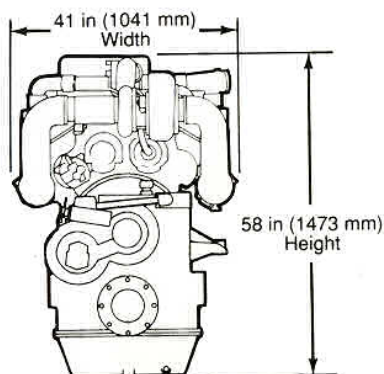
MARINE CONTINUOUS The marine continuous rating applies to medium or low speed boats (normally of the displacement type) which operate up to 24 hours a day, 365 days a year, at high load factors. Typical examples include tugs, towboats, offshore supply boats, fishing trawlers and draggers.

Consult your authorized Detroit Diesel Corporation representative for the rating that will apply to your vessel.

Dimensional Drawing

Model 8082-7403
8V-92TA

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



DETROIT DIESEL
CORPORATION



13400 Outer Drive, West / Detroit, Michigan 48239-4001

Telephone: 313-592-5000

AX: 313-592-7288

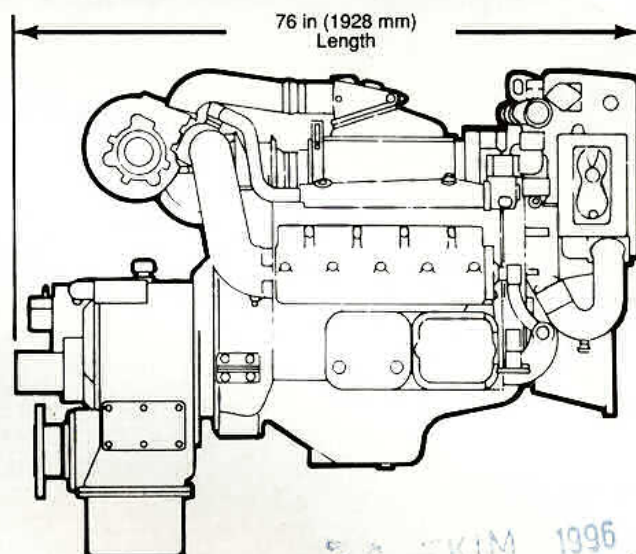
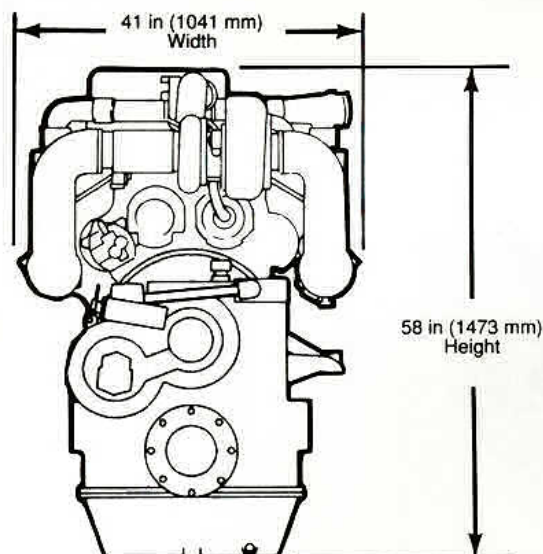


DETROIT DIESEL



**8V-92TA DDEC
440 BHP**

**Marine Commercial
Continuous**



30 EKIM 1996

General Specifications

Basic Engine	8V-92TA
Model—Port	8082-7B21
Starboard	8082-7B20
Description	Turbocharged-Aftercooled with Bypass Blower
Number of Cylinders	8
Bore and Stroke	4.84 in x 5.00 in (123 mm x 127 mm)
Displacement	736 cu in (12.1 liters)
Compression Ratio	17.0 to 1
Weight (dry)	5390 lbs (2447 kg) (Includes Marine Gear, PTO, and Mounting Systems)

Rated Power Output—Continuous

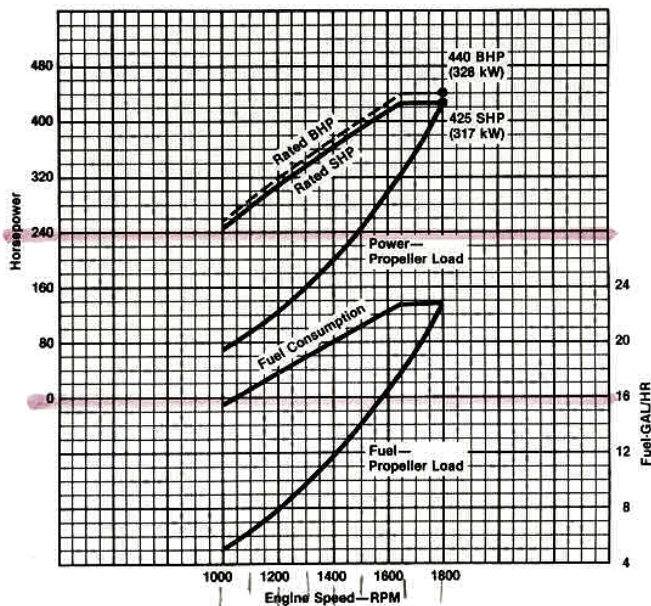
Gross Power	440 BHP (328 kW) @ 1800 RPM
Net Power	425 SHP (317 kW) @ 1800 RPM

Equipment Specifications

Air Inlet Housing—With manual shutdown
Aftercooler—Two-pass jacket coolant supply
Alternator—24 volt, 60 amp or 28 volt, 100 amp
Cooling System—Cast iron heat exchanger or expansion tank for keel cooling
Crankcase vapor collectors with silencers
Crankshaft Pulley—3 grooves, .50 inch wide (available w/o FPTO)
DDEC—Detroit Diesel Electronic Controls
Exhaust System—Fresh water-cooled manifolds and turbine housing
Flywheel Housing—SAE #1
Fuel System—Cam operated electronic unit injectors with low pressure USCG Type A external hoses, fuel filters and cooler
Lube Oil Filter—Full flow
Marine Gear—Detroit Diesel DD 516V
Oil Pan—Cast iron designed for 0°-12.5° inclination angle, rear sump
Starting Motor—24 volt

Performance Curve

Model 8V-92TA—Continuous



Rating Explanation

RATED BHP Basic engine gross horsepower.

RATED SHP Net power available at the marine gear output flange.

PROPELLER LOAD Indicates power absorbed by a typical fixed pitch propeller.

MARINE CONTINUOUS The marine continuous rating applies to medium or low speed boats (normally of the displacement type) which operate up to 24 hours a day, 365 days a year, at high load factors. Typical examples include tugs, towboats, offshore supply boats, fishing trawlers and draggers.

Consult your authorized Detroit Diesel Corporation representative for the rating that will apply to your vessel.

DETROIT DIESEL

CORPORATION



Water Drive, West / Detroit, Michigan 48239-4001

Phone: 313-592-5000

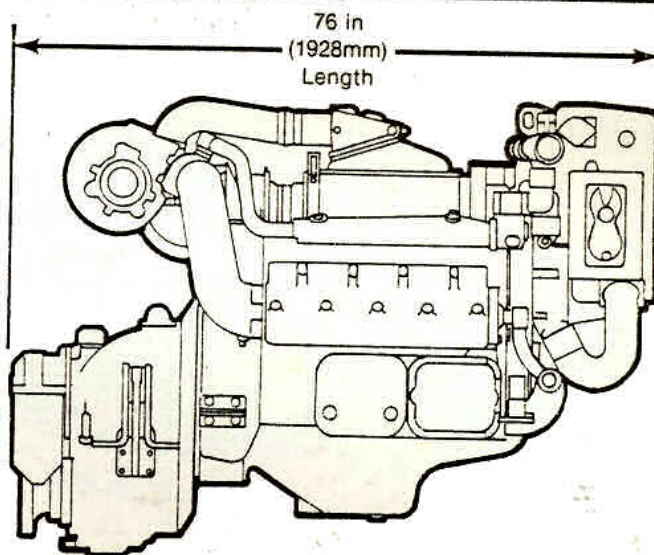
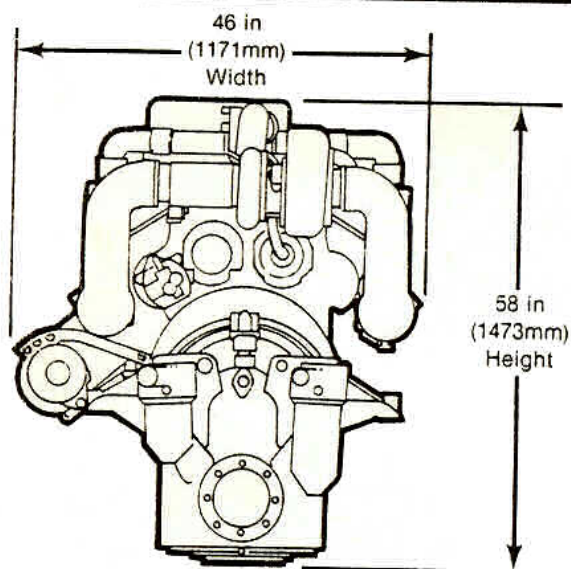
1-800-313-592-7288



DETROIT DIESEL Series 92

**Marine Model
Crewboat**

8V-92TA 500 BHP



General Specifications

Basic Engine	8V-92TA
Model—Port	8082-3402
Starboard	8082-7402
Description	Turbocharged-Aftercooled with Bypass Blower
Number of Cylinders	8
Bore and Stroke	4.84 in x 5.00 in (123 mm x 127 mm)
Displacement	736 cu in (12.1 liters)
Compression Ratio	17.0 to 1
Weight (dry)	4265 lbs (1935 kg)

Rated Power Output—Maximum

Injectors	9A98
Gross Power	500 BHP (373 kW) @ 2100 RPM
Net Power	490 SHP (366 kW) @ 2100 RPM

Equipment Specifications

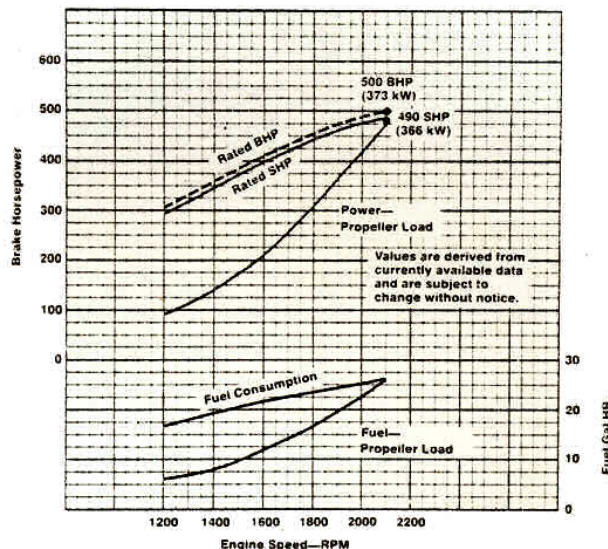
Air Inlet Housing	—With manual shutdown
Aftercooler	—Three-pass jacket coolant supply
Alternator	—24 volt, 60 amp
Cooling System	—Cast iron expansion tank and raw water pump
Crankshaft Pulley	—3 grooves, .50 inch wide
Exhaust System	—Fresh water cooled manifolds and turbine housing
Flywheel Housing	—SAE #1
Fuel System	—Cam operated unit injectors with low pressure USCG type A external hoses, fuel filters and cooler
Governor	—Variable speed
Lube Oil Filter	—Full flow
Marine Gear	—Allison MH (1.54, 1.97:1, 2.50 reduction ratios)
Oil Pan	—Cast iron, designed for 0°-15° inclination angle, rear sump
Starting Motor	—24 volt

Rating conditions: ISO 3046, SAE J1349, SAE J1228
77°F (25°C) and 29.31 in. Hg. (99kPa) Barometer (Dry)

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

Performance Curve

Model 8V-92TA—Intermittent



Rating Explanation

RATED BHP Basic engine gross horsepower.

RATED SHP Net power available at the marine gear output flange.

PROPELLER LOAD indicates horsepower absorbed by a typical fixed pitch propeller.

POWER OUTPUT guaranteed within 5% at rated ambient conditions.

MARINE INTERMITTENT The intermittent rating applies to medium to high speed commercial boats that operate at moderate to low load factors. These are boats intended for commercial service where 3,000 hours or less (3,500 hours for Series 149 engine) are accumulated annually. Normal or continuous cruising RPM should be limited to 95% of rated RPM, with intermittent use of rated power permitted. Typical examples include crewboats, water taxis, pilot boats, ferryboats, lobster boats, party fishing boats, charter sportfisherman, and patrol boats.

Consult your authorized Detroit Diesel Corporation representative for the rating that will apply to your vessel.

DETROIT DIESEL

CORPORATION

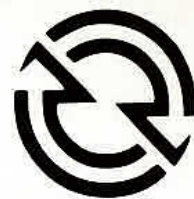


13400 Outer Drive, West / Detroit, Michigan 48239-4001

Telephone: 313-592-5000

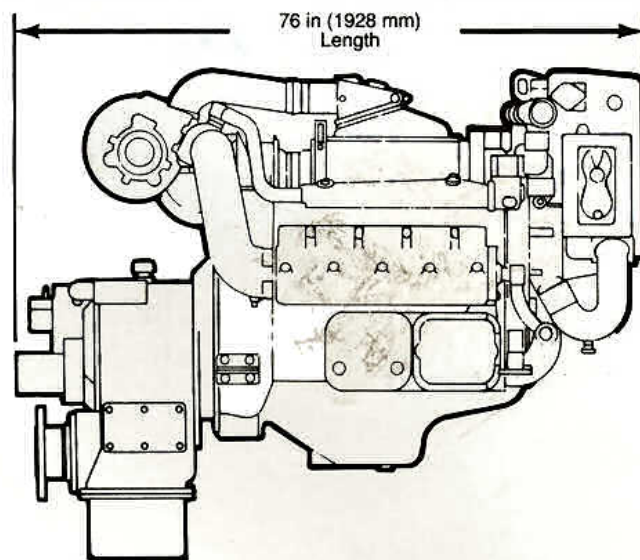
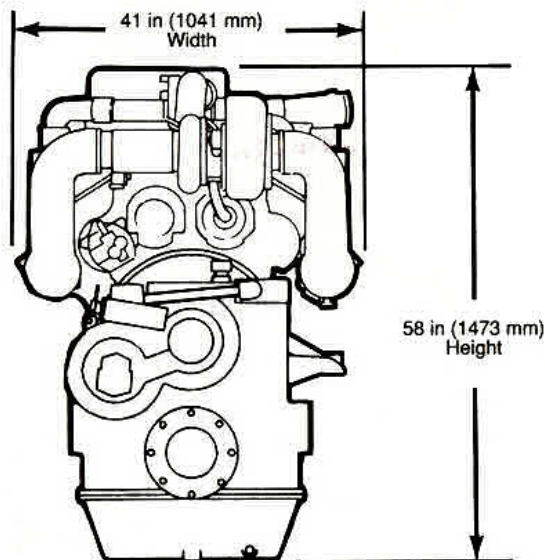
Telex: 4320091 / TWX: 810-221-1649

DETROIT DIESEL



8V-92TA DDEC
530 BHP

Marine Commercial
Intermittent



General Specifications

Basic Engine	8V-92TA
Model—Port	8082-7B23
Starboard	8082-7B22
Description	Turbocharged-Aftercooled with Bypass Blower
Number of Cylinders	8
Bore and Stroke	4.84 in x 5.00 in (123 mm x 127 mm)
Displacement	736 cu in (12.1 liters)
Compression Ratio	17.0 to 1
Weight (dry)	4995 lbs (2268 kg) (Includes Marine Gear and Mounting Systems)

Rated Power Output—Intermittent

Gross Power	530 BHP (395 kW) @ 2100 RPM
Net Power	510 SHP (380 kW) @ 2100 RPM

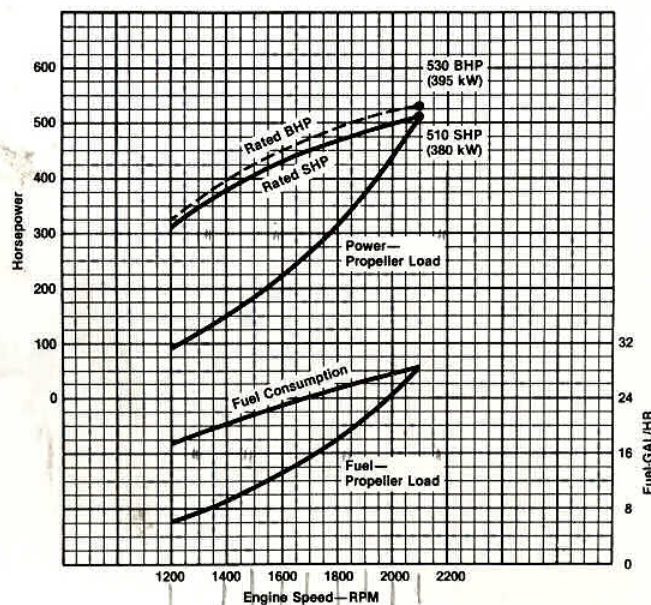
Equipment Specifications

Air Inlet Housing—With manual shutdown
Aftercooler—Three-pass jacket coolant supply
Alternator—24 volt, 60 amp or 28 volt, 100 amp
Cooling System—Cast iron heat exchanger or expansion tank for keel cooling
Crankcase vapor collectors with silencers
Crankshaft Pulley—3 grooves, .50 inch wide (available w/o FPTO)
DDEC—Detroit Diesel Electronic Controls
Exhaust System—Fresh water-cooled manifolds and turbine housing
Flywheel Housing—SAE #1
Fuel System—Cam operated electronic unit injectors with low pressure USCG type A external hoses, fuel filters and cooler
Lube Oil Filter—Full flow
Marine Gear—Detroit Diesel DD 514EV or DD 516V
Oil Pan—Cast iron, designed for 0°-12.5° inclination angle, rear sump
Starting Motor—24 volt

14 MAYIS 1998

Performance Curve

Model 8V-92TA—Intermittent



Rating Explanation

RATED BHP Basic engine gross horsepower.

RATED SHP Net power available at the marine gear output flange.

PROPELLER LOAD Indicates horsepower absorbed by a typical fixed pitch propeller.

POWER OUTPUT Guaranteed within 5% at rated ambient conditions.

MARINE INTERMITTENT The intermittent rating applies to medium to high speed commercial boats that operate at moderate to low load factors. These are boats intended for commercial service where 3,000 hours or less (3,500 hours for Series 149 engine) are accumulated annually. Normal or continuous cruising RPM should be limited to 95% of rated RPM, with intermittent use of rated power permitted. Typical examples include crewboats, water taxis, pilot boats, ferryboats, lobster boats, party fishing boats, charter sportfisherman, and patrol boats.

Consult your authorized Detroit Diesel Corporation representative for the rating that will apply to your vessel.

DETROIT DIESEL
CORPORATION



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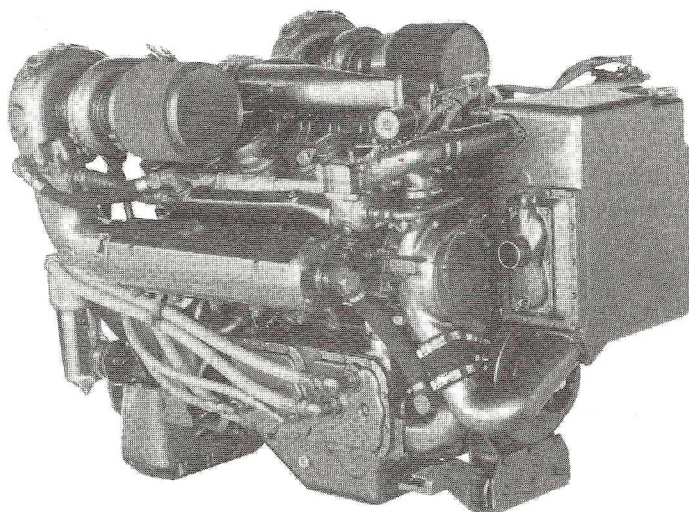
Telephone: 313-592-5000

FAX: 313-592-7288



Detroit Diesel Allison Marine Model

**8V-92TA
735 BHP
Pleasure Craft**



General Specifications

Basic Engine	8V-92TA
Model—Port	8082-3400
Starboard	8082-7400
Description	Turbocharged—Aftercooled with Bypass Blower
Number of Cylinders	8
Bore and Stroke	4.84 in x 5.00 in (123 mm x 127 mm)
Displacement	736 cu in (12.1 liters)
Compression Ratio	17.0 to 1
Weight (dry)	4265 lbs (1935 kg)

Rated Power Output—Maximum

Injectors	145
Gross Power	735 BHP (548 kW) @ 2300 RPM
Net Power	720 SHP (537 kW) @ 2300 RPM

Rating conditions: ISO 3046, SAE J1349, SAE J1228
77°F (25°C) and 29.31 in. Hg. (99kPa) Barometer (Dry)

Equipment Specifications

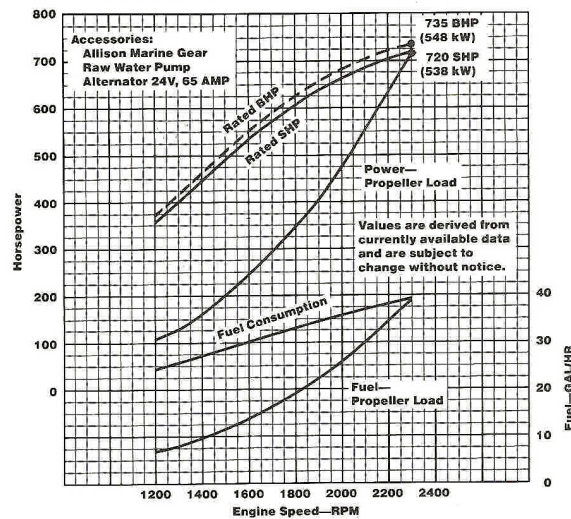
Air Inlet Housing—With manual shutdown
Air Silencer—Two
Aftercooler—Two-pass with precooled coolant supply
Alternator—24 volt, 65 amp, flange mounted
Cooling System—Low profile cast iron expansion tank and raw water pump
Crankshaft Pulley—3 grooves, .50 in wide
Engine Mounts—Resilient mounts for both engine and marine gear
Exhaust System—Fresh water cooled manifolds and twin turbine housings
Flywheel Housing—SAE #1
Fuel System—Cam operated unit injectors with low pressure USCG type A external hoses, fuel filters and cooler
Governor—Variable speed
Lube Oil Filter—Full flow
Marine Gear—Allison MH (1.54, 1.97:1 reduction ratios)
Oil Pan—Cast iron, designed for 0°-15° inclination angle, rear sump
Starting Motor—24 volt

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

Photograph illustrates a typical marine engine

Performance Curve

Model 8V-92TA—Maximum



Rating Explanation

RATED BHP Basic engine gross horsepower.

Rated SHP Net power available at the marine gear output flange.

PROPELLER LOAD indicates horsepower absorbed by a typical fixed pitch propeller.

POWER OUTPUT guaranteed within 5% at rated ambient conditions.

MARINE MAXIMUM The marine maximum rating applies to high performance boats where speed is of primary importance and overall load factors are low. Normal or continuous cruising RPM should be limited to 90% of rated engine RPM, and the use of full rated power should be limited to 10% (average) of operating time. This rating is normally reserved for privately-owned yachts in non-revenue applications with an average annual hour accumulation of 500 hrs.

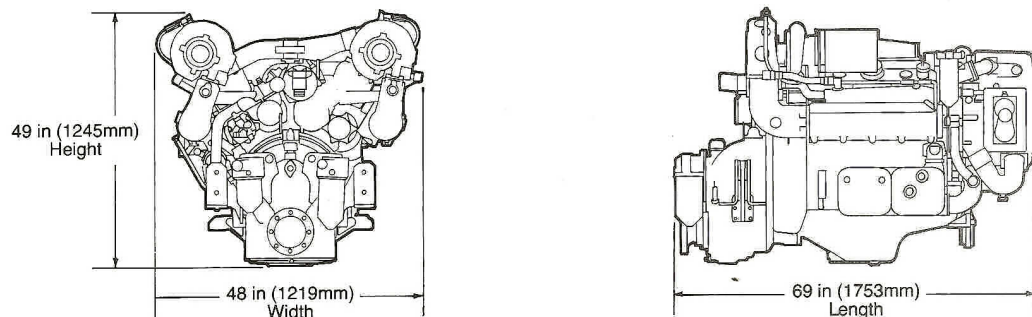
MARINE INTERMITTENT- MAXIMUM The intermittent-maximum rating is reserved for privately-owned yachts with long-range cruising capability and/or used in seasonal charter operation. Normal or continuous cruising RPM should be limited to 90% of the rated engine RPM and the use of full rated power should be limited to 10% (average) of operating time. All boats in this category are limited to a maximum of 1,000 hours per year.

NOTE: Other boats; e.g., fire, police, with an overall duty cycle similar to maximum or intermittent-maximum may be applied at the appropriate rating.

Consult your authorized Detroit Diesel Allison representative for the rating that will apply to your vessel.

Dimensional Drawing

Model 8082-7400
8V-92TA



Approximate dimensions shown. For complete dimensional information, refer to installation drawing 2SA520.



Detroit Diesel Allison

Division of General Motors

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(313/592-5000)

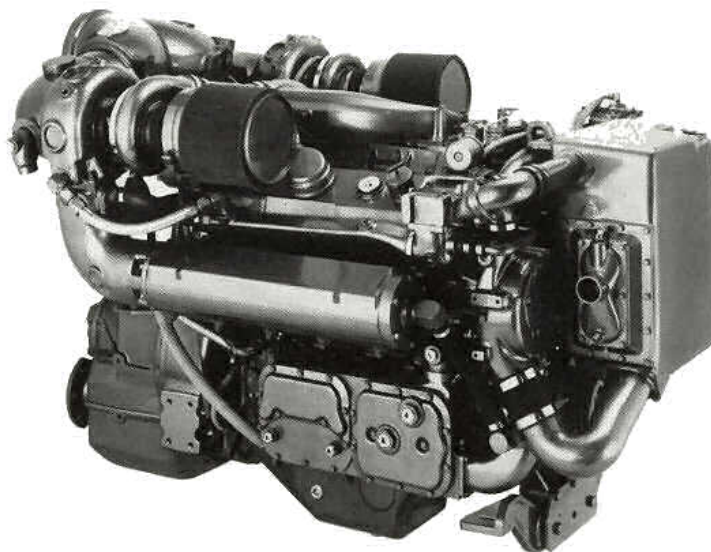
Demirhan Sadıkoğlu
2015

DETROIT DIESEL



**8V-92TA DDEC
760 BHP**

Marine Pleasure Craft



General Specifications

Basic Engine	8V-92TA
Model	8082-7B00
Description	Turbocharged-Aftercooled with Bypass Blower
Number of Cylinders	8
Control	DDEC
Bore and Stroke	4.84 in x 5.00 in (123 mm x 127 mm)
Displacement	736 cu in (12.1 liters)
Compression Ratio	15.0 to 1
Weight (dry)	4000 lbs (1814 kg)

Rated Power Output—Maximum

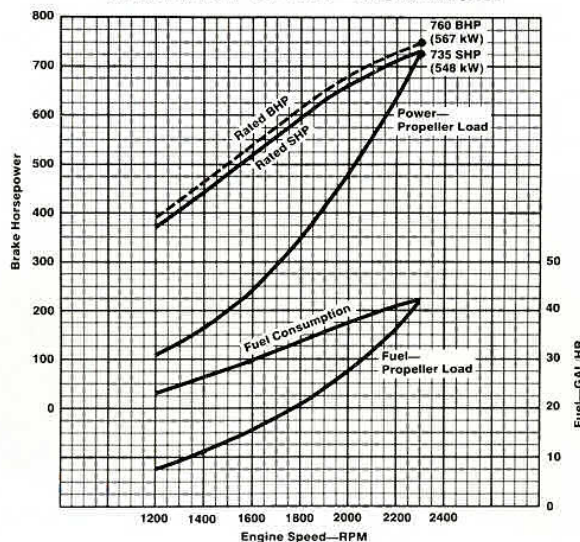
Gross Power	760 BHP (567 kW) @ 2300 RPM
Net Power	735 SHP (548 kW) @ 2300 RPM

Equipment Specifications

Air Inlet Housing—With manual shutdown
Air Silencer—Two
Aftercooler—Two-pass with precooled coolant supply
Alternator—24 volt, 65 amp, flange mounted
Cooling System—Low profile aluminum expansion tank with raw water pump
Crankshaft Pulley—3 grooves, .50 inch wide
DDEC—Detroit Diesel Electronic Controls
Engine Mounts—Resilient mounts for both engine and marine gear
Exhaust System—Fresh water-cooled manifolds and twin turbine housings
Flywheel Housing—SAE #1
Fuel System—Cam operated electronic unit injectors with low pressure USCG type A external hoses, fuel filters and cooler
Lube Oil Filter—Full flow
Marine Gear—Detroit Diesel-5111A (1.48, 1.50, 1.74, 1.92, 2.04 reduction ratios)
Oil Pan—Cast iron, designed for 0°-15° inclination angle, rear sump
Starting Motor—24 volt

Performance Curve

Model 8V-92TA—Maximum



Rating Explanation

RATED BHP Basic engine gross horsepower.

Rated SHP Net power available at the marine gear output flange.

PROPELLER LOAD indicates horsepower absorbed by a typical fixed pitch propeller.

POWER OUTPUT guaranteed within 5% at rated ambient conditions.

MARINE MAXIMUM The marine maximum rating applies to high performance boats where speed is of primary importance and overall load factors are low. Normal or continuous cruising RPM should be limited to 90% of rated engine RPM, and the use of full rated power should be limited to 10% (average) of operating time. This rating is normally reserved for privately-owned yachts in non-revenue applications with an average annual hour accumulation of 500 hrs.

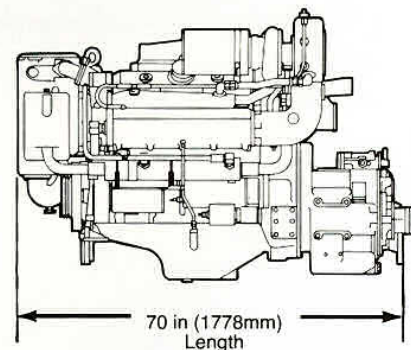
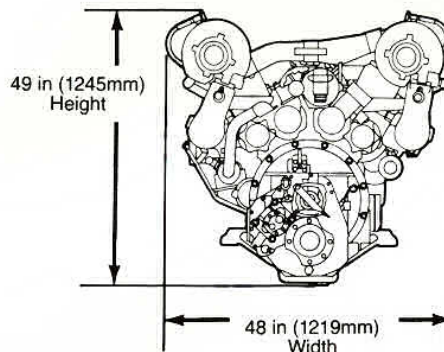
NOTE: Other boats; e.g., fire, police, with an overall duty cycle similar to maximum or intermittent-maximum may be applied at the appropriate rating.

Consult your authorized Detroit Diesel Corporation representative for the rating that will apply to your vessel.

Dimensional Drawing

Model 8082-7B00
8V-92TA

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



DETROIT DIESEL
CORPORATION

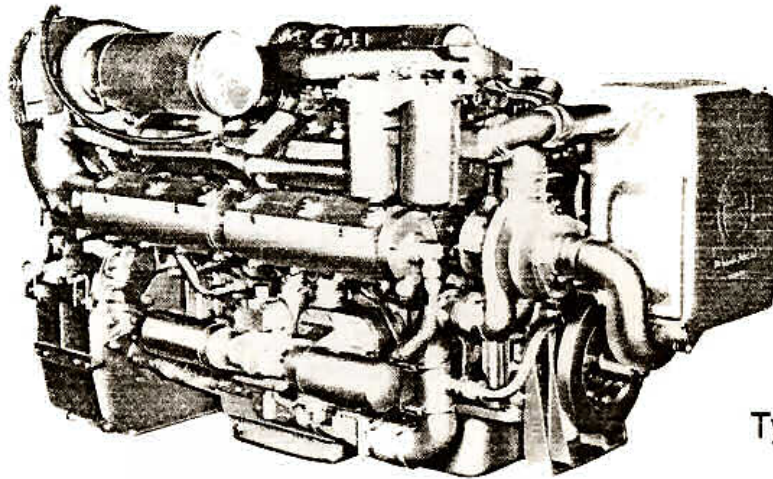


13400 Outer Drive, West / Detroit, Michigan 48239-4001
Telephone: 313-592-5000
Telex: 4320091 / TWX: 810-221-1649
FAX: 313-592-7288

Detroit Diesel Engines

MARINE MODELS

12V-92TA



Typical 12V-92TA

GENERAL SPECIFICATIONS

Basic Engine	12V-92TA Workboat	12V-92TA Pleasure Craft
Model-Port		
Starboard	8122-7402	8122-7400
Description	Turbocharged Aftercooled	Turbocharged Aftercooled
Number of Cylinders	12	12
Bore and Stroke	4.84 in x 5 in (123mm x 127mm)	4.84 in x 5 in (123mm x 127mm)
Displacement	1104 cu in (18.1 liters)	1104 cu in (18.1 liters)
Compression Ratio	17 to 1	17 to 1
Net Weight (dry)	7750 lbs (3515 kg)	6150 lbs (2789 kg)
Rated Power Output		
Continuous		
Injectors	7G75	—
Rated Gross Power	520 BHP (388 kW) @ 1800 RPM†	—
Rated Net Power	504 SHP (376 kW) @ 1800 RPM†	—
Intermittent		
Injectors	9G90	—
Rated Gross Power	700 BHP (522 kW) @ 2100 RPM†	—
Rated Net Power	675 SHP (504 kW) @ 2100 RPM†	—
Maximum		
Injectors	—	145
Rated Gross Power	—	1080 BHP (806 kW) @ 2300 RPM†
Rated Net Power	—	1040 SHP (776 kW) @ 2300 RPM†

EQUIPMENT SPECIFICATIONS

Air Inlet Housing—With manual shutdown

Air Silencers

Alternator—28 volt, 65 amp, flange mounted

Crankshaft Pulley

Exhaust Manifold—Water cooled

Flywheel Housing—SAE #1 Model 8122-7400 only;
SAE #0 Model 8122-7402 only.

Fuel Cooler

Fuel Filters—Spin-on

Governor—Variable speed

Heat Exchanger—Model 8122-7400 only.

Injectors—Cam operated, unit type, clean tip

Keel Cooling—Model 8122-7402 only.

Lube Oil Cooler

Lube Oil Filter—Spin-on, full-flow

Oil Pan—Cast iron, designed for 20° inclination angle,
rear sump

Raw Water Pump

Starting Motor—24 volt

Turbochargers—Two (TW83), high efficiency design

Vibration Damper—Single, heavy, viscous

Optional Upon Request

(at additional cost)

Engine Mounts—Resilient mounts, front and rear, includes
mounts for both engine and marine gear

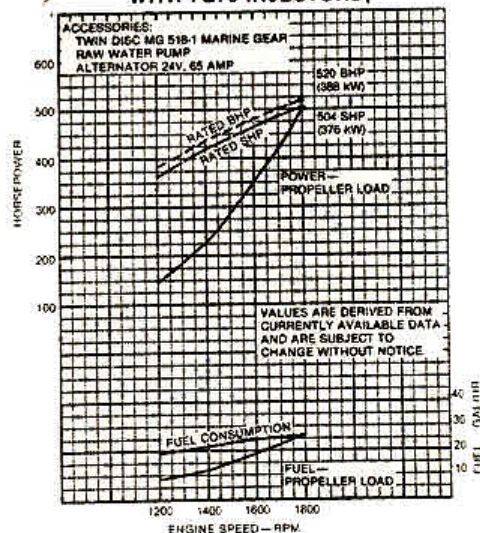
Marine Gear—Twin Disc MG 518 Model 8122-7402 only;
ZF BW 195 Model 8122-7400 only

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

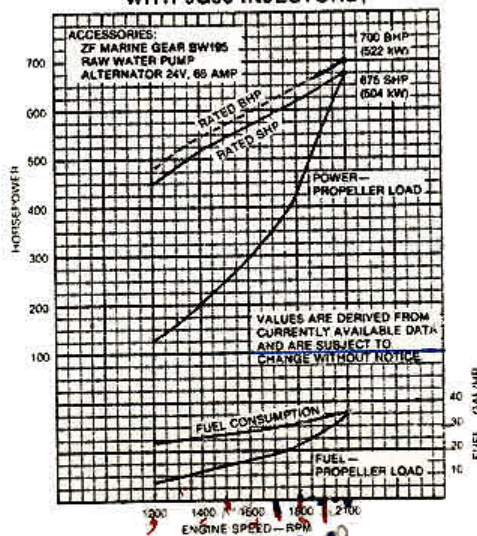
†SAE: 77°F (25.0°C) and 29.31 in Hg (99 kPa) Barometer (Dry).

PERFORMANCE CURVES

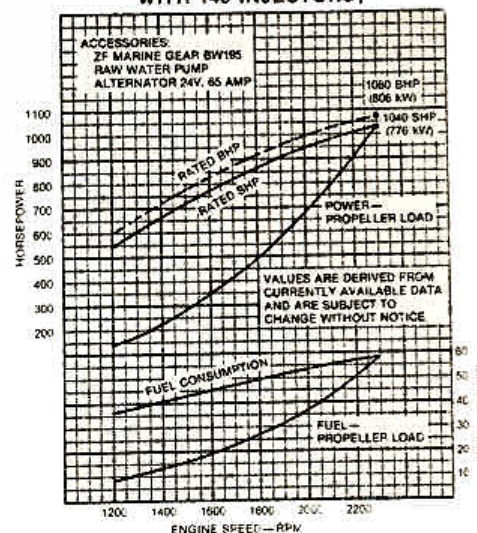
**MODEL 12V-92TA
MARINE CONTINUOUS RATING
WITH 7G75 INJECTORS†**



**MODEL 12V-92TA
MARINE INTERMITTENT RATING
WITH 9G90 INJECTORS†**



**MODEL 12V-92TA
MARINE MAXIMUM RATING
WITH 145 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.

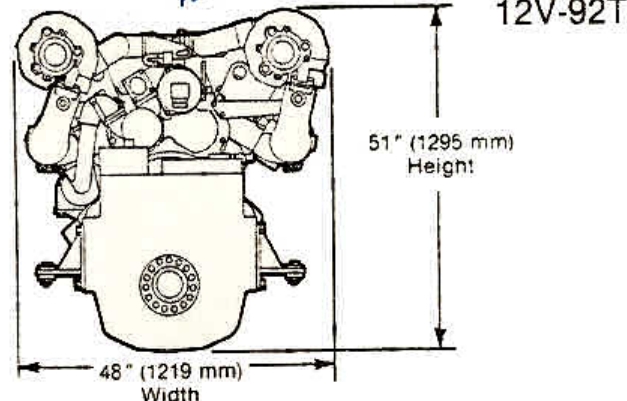
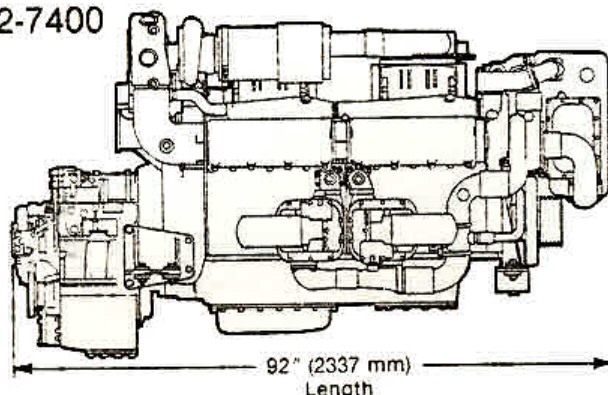
POWER OUTPUT guaranteed within 5% at standard ambient conditions.

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

DIMENSIONAL DRAWING

Model 8122-7400



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

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Detroit Diesel Allison

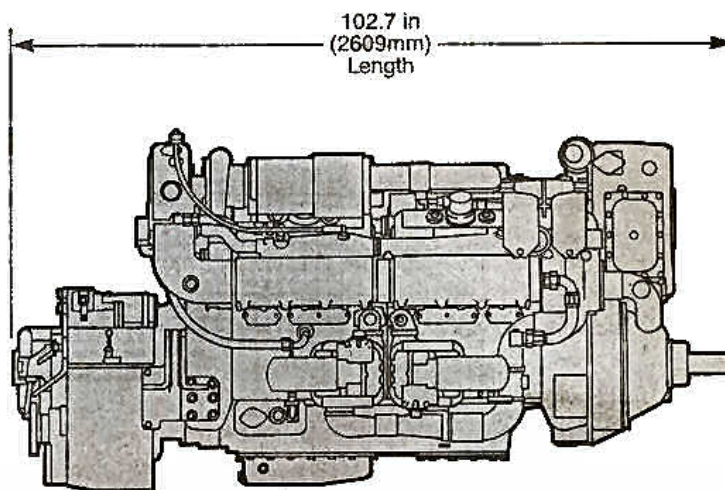
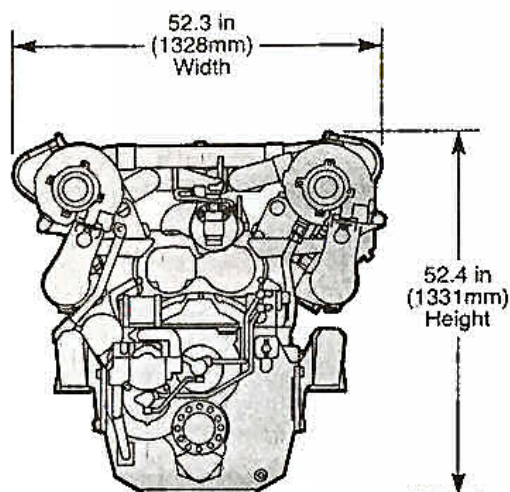
Division of General Motors

13400 Outer Drive, West, Detroit, Michigan 48239-4001
(313/592-5000)

Detroit Diesel Allison Marine Model



**12V-92TA
530 BHP
Work Boat**



General Specifications

Basic Engine	12V-92TA
Model	8122-7402
Description	Turbocharged-Aftercooled with Bypass Blower
Number of Cylinders	12
Bore and Stroke	4.84 in x 5.00 in (123 mm x 127 mm)
Displacement	1104 cu in (18.1 liters)
Compression Ratio	17.0 to 1
Weight (dry)	8020 lbs (3638 kg)

Rated Power Output—Continuous

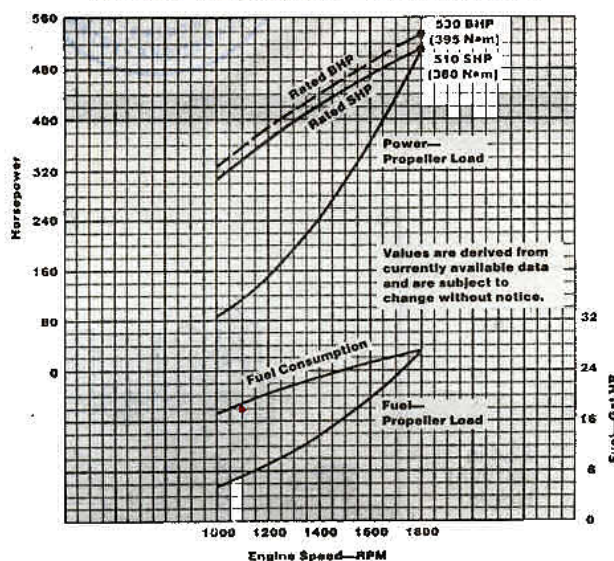
Injectors	7E75
Gross Power	530 BHP (395 kW) @ 1800 RPM
Net Power	510 SHP (380 kW) @ 1800 RPM

Equipment Specifications

Air Inlet Housing—With manual shutdown
Aftercooler—Three-pass
Alternator—24 volt, 65 amp, flange mounted
Cooling System—Cast iron expansion tank
Engine Mounts—Solid mounts for both engine and marine gear
Exhaust System—Fresh water cooled manifolds and twin turbine housings
Factory Installed Marine Gear Options—Twin Disc MG 518, or without gear for custom installed gear
Flywheel Housing—SAE #0 (SAE #1 optional)
Front PTO—160 HP
Fuel System—Cam operated unit injectors with low pressure USCG type A external hoses and fuel filters
Governor—Variable speed
Lube Oil Filter—Full flow
Oil Pan—Cast iron, designed for 0°-15° inclination angle, rear sump
Starting Motor—24 volt

Performance Curves

Model 12V-92TA—Continuous



Rating Explanation

RATED BHP Basic engine gross horsepower.

Rated SHP Net power available at the marine gear output flange.

PROPELLER LOAD indicates horsepower absorbed by a typical fixed pitch propeller.

POWER OUTPUT guaranteed within 5% at rated ambient conditions.

MARINE INTERMITTENT The marine intermittent rating applies to medium to high speed commercial boats that operate at moderate to low load factors. These are boats intended for commercial service where 3,000 hours or less (3,500 hours for Series 149 engines) are accumulated annually. Normal or continuous cruising RPM should be limited to 95% of rated RPM, with intermittent use of rated power permitted. Typical examples include crewboats, water taxis, pilot boats, ferryboats, lobster boats, party fishing boats, charter sportfisherman, and patrol boats.

MARINE CONTINUOUS The marine continuous rating applies to medium or low speed boats (normally of the displacement type) which operate up to 24 hours a day, 365 days a year, at high load factors. Typical examples include tugs, towboats, offshore supply boats, fishing trawlers and draggers.

Consult your authorized Detroit Diesel Allison representative for the rating that will apply to your vessel.



Detroit Diesel Allison

Division of General Motors

13400 Outer Drive, West, Detroit, Michigan 48239-4001
(313/592-5000)

BAŞAKINCI

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Cumhuriyet Caddesi, Eren Apt. 129/4
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Tel. : 146 91 08 - 130 38 00/01
Tlx. : 26208 Kbl tr.

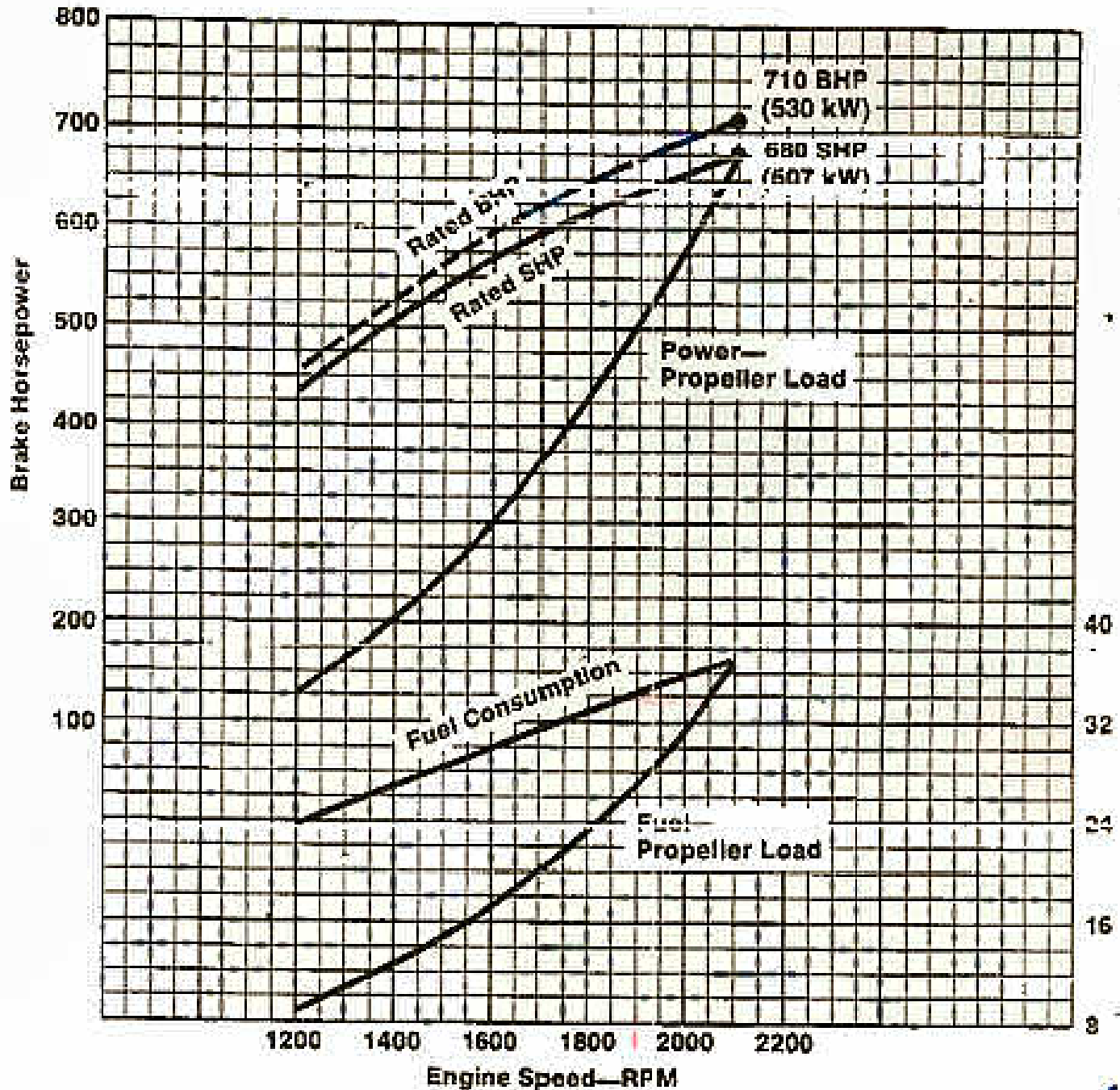
Tarlabasi Caddesi, 12
Taksim - ISTANBUL
Tel. : 155 13 16 - 155
Tlx. : 24339 Kbcö tr
Fax : 155 71 53



12V-92TA
Marine
Rating: intermittent
710 BHP @ 2100 RPM
680 SHP @ 2100 RPM
Injector: DESS
Turbocharger: (2) TW73 (1.03 A/R)

ENGINE PERFORMANCE CURVE

12V-92TA



ACCESSORIES: TWIN DISC MG518, RAW WATER PUMP, ALTERNATOR 24V, 65A

Air Intake Restriction - In. H₂O (kPa) . . 10 (2.5)

Exhaust Back Pressure - In. H₂O (kPa) . . 15 (3)

- Power output guaranteed within 5% at SAE J1223 conditions: 77°F (25°C) air inlet temperature; 29.91 in. Hg (39kPa) dry barometer; 100°F (38°C) fuel inlet temperature (0.850 specific gravity at 60°F). Power rated in accordance with NMMA Procedure.
- Conversion factors: Power: kW = bhp x 0.746
Fuel: L/hr = gal/hr x 3.785

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

Certified by:

Mark S. Kester

Curve No.
E4-8122-32-5

Date: 10-2-87
Rev./Date: 1/10-9-
Sht. 1 of 4

Engine Specification Data

General Data

Model	8122-7401
Number of Cylinders	12
Bore and Stroke-In (mm)	4.84x5.00 (123x127)
Displacement-in ³ (L)	1164 (18.1)
Compression Ratio	17:1
Piston Speed-in/min (m/min)	1750 (533)
Valves Per Cylinder	
Intake	Not Applicable
Exhaust	4
Combustion System	Direct Injection
Engine Type	83.5° Vee-2 Cycle
Aspiration	Turbocharged

Configuration

Turbocharger	(2) TW73 (1.03 A/R)
Charge Air Cooling System	JWAC
Blower Type	100% Bypass
Blower Drive Ratio	1.85:1
Low Idle Speed-r/min	550
Max. No Load Speed-r/min	2300
Engine Crankcase Vent System	Open
Maximum Pressure-In H ₂ O (kPa)	2.0 (0.50)

Physical Data

Size	
Length-In (mm)	100 (2592)
Width-In (mm)	49.7 (1263)
Height-In (mm)	55.7 (1441)
Weight, dry-lb (kg)	Not Available
Weight, wet-lb (kg)	Not Available
Center of Gravity Distance	
From R.F.O.B. (z axis)-In (mm)	Not Available
Above Crankshaft (y axis)-In (mm)	Not Available
Right of Crankshaft (z axis)-In (mm)	Not Available
Installation Drawing	23503504

Marine Gear

Type	Twin Disc MGS18
Reduction Ratio	2.0:1
Lube Oil Capacity approx. (Does not include heat exchanger or connections used externally)-qt (l)	32 (30)
(Marine gear must use straight viscosity oil)	
Gear Weight, dry-lb (kg)	2130 (966)

Fuel System

Fuel Injector/Timing	BE85/1.460
Fuel Consumption-lb/hr (kg/hr)	258.7 (117.3)
Fuel Spill Rate-gal/hr (L/hr)	108.0 (408.0)
Total Fuel Flow-gal/hr (L/hr)	145.0 (548.9)
Maximum Allowable Fuel Pump Suction	
Clean System-In Hg (kPa)	0 (20)
Dirty System-In Hg (kPa)	12 (41)
Fuel Filter Micron Size	
Primary-Micron	30
Secondary-Micron	12
Recommended Supply Line I.D.	
In (mm)	0.625 (15.827)

Lubrication System

Oil Pressure	
Rated Speed-lb/in ² (kPa)	45-70 (328-483)
Low Idle-lb/in ² (kPa)	5 (34)
In Pan Oil Temperature-°F (°C)	200-250 (93-121)
Oil Flow-gal/min (L/min)	60 (227)
Oil Pan Capacity	
High-qt (L)	42 (40)
Low-qt (L)	34 (32)
Total Engine Oil Capacity with Filters-qt (L)	60 (47)
Maximum Installation Angle	15°

Emission Data

CO-gm/hr	4130
HC-gm/hr	200
NO _x -gm/hr	4250
SO _x -gm/hr	1170
Smoke-Bosch Number	0.8
Noise-dB (A) @ 1m	Not Available

Ref: E4PR-8122-32-5

All values at rated speed and power with standard engine hardware unless otherwise noted.

Cooling System

Engine Heat Rejection-Btu/min (kW)	31000 (545.1)
Engine Radiated Heat-Btu/min (kW)	1190 (20.9)
Max. Fresh Water Flow-gal/min (L/min)	305 (1155)
Raw Water Flow-gal/min (L/min)	100 (378)
Maximum Water Pump Inlet Restriction	
Fresh Water-In Hg (kPa)	3.0 (10.3)
Raw Water-In Hg (kPa)	5.0 (17.0)
Fresh Water Capacity-qt (L)	145 (157.2)
Minimum Pressure Cap-lb/in ² (kPa)	7.0 (48.3)
Maximum Coolant Pressure (Exclusive of Pressure Cap)-lb/in ² (kPa)	Not Available
Mix. Raw Water Pump Pressure	
lb/in ² (kPa)	10.0 (69.0)
Maximum Top Tank Temperature-°F (°C)	210 (110)
Suggested Raw Water Pipe Size-In (mm)	3.0 (76)
Suggested Sea Strainer Size	
Simplex-In (mm)	3.0 (76)
Duplex-In (mm)	4.0 (102)

Air System

Maximum Allowable Temperature Rise (Outside Air to Engine Inlet)-°F (°C)	30 (16.7)
Air Intake Restriction Maximum Limit	
Dirty Air Cleaner-In H ₂ O (kPa)	20 (5.0)
Clean Air Cleaner-In H ₂ O (kPa)	12 (3.0)
Engine Air Flow-lb/min (m ³ /min)	2020 (57.2)
Engine Air Box Maximum Pressure-In Hg (kPa)	40.0 (155.3)
Recommended Intake Pipe Dia.-In (mm)	8.0 (152)
Suggested min. engine room vent area	
Max. engine room depression	
0.2 in H ₂ O-in ² (cm ²)	194 (1252)

Exhaust System

Exhaust Flow-lb/min (m ³ /min)	3750 (106.5)
Exhaust Temperature-°F (°C)	540 (282)
Maximum Allowable Back Pressure-In Hg (kPa)	2.5 (8.4)
Recommended Dry Exhaust Pipe Dia.	
Single-In (mm)	10.0 (254)
Dual-In (mm)	8.0 (203)

Electrical System

Recommended Battery Capacity (CCA @ 0°F)	
12 Volt System	
Above 32°F (0°C)-A	1900
Below 32°F (0°C)-A	2500
24 Volt System	
Above 32°F (0°C)-A	950
Below 32°F (0°C)-A	1250
Maximum Allowable Resistance of Starting Circuit	
12 volt system-ohm	0.0012
24 volt system-ohm	0.002

Performance Data

BMEP-lb/in ² (kPa)	121.3 (836)
Friction Power	
Rated Speed-hp (kW)	158 (118)

Engine

Speed r/min	Power bhp (kW)	Power shp (kW)	Fuel gal/hr (l/hr)	BSFC lb/bhp hr (g/kW hr)
2100	710 (530)	680 (507)	37.0 (140.1)	364 (222)
1800	648 (485)	624 (468)	32.9 (124.5)	354 (215)
1600	582 (442)	569 (425)	30.1 (113.9)	355 (218)
1400	529 (394)	507 (379)	27.2 (103.1)	360 (219)
1200	449 (335)	430 (321)	24.0 (90.8)	374 (227)

Engine Speed r/min	Prop Load shp (kW)	Prop Fuel gal/hr (l/hr)	Prop BSFC lb/bhp hr (g/kW hr)	→
2100	680 (507)	37.0 (140.1)	364 (222)	
1800	428 (319)	23.4 (88.5)	360 (219)	
1600	301 (224)	17.2 (65.0)	370 (225)	
1400	202 (150)	12.2 (46.1)	382 (232)	
1200	127 (95)	8.4 (31.7)	402 (245)	

CURVE NO. E4-8122-32-5

DATE: 10-2-87

REV./DATE: 1/10-6-89

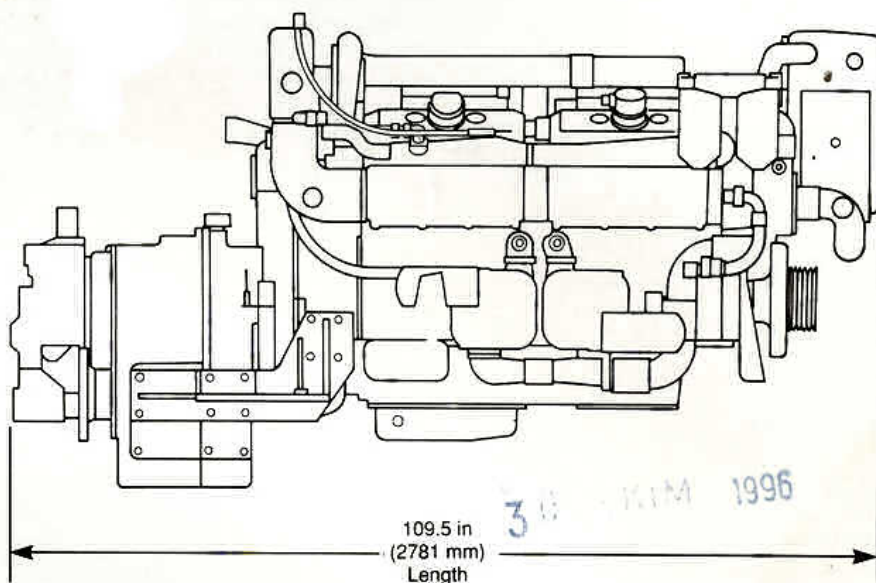
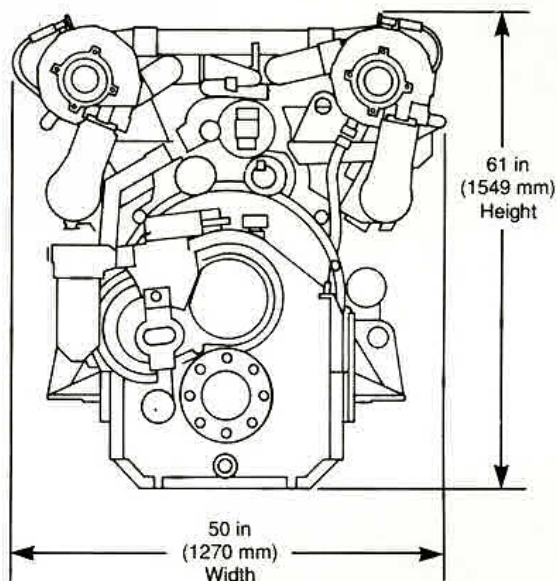
SHT. 2 OF 4

DETROIT DIESEL



**12V-92TA DDEC
815 BHP**

**Marine Commercial
Intermittent**



General Specifications

Basic Engine	12V-92TA
Model—Port	8122-7B23
Starboard	8122-7B22
Description	Turbocharged-Aftercooled with Bypass Blower
Number of Cylinders	12
Bore and Stroke	4.84 in x 5.00 in (123 mm x 127 mm)
Displacement	1104 cu in (18.1 liters)
Compression Ratio	17.0 to 1
Weight (dry) w/gear	4900 lbs (2224 kg)

Rated Power Output—Intermittent

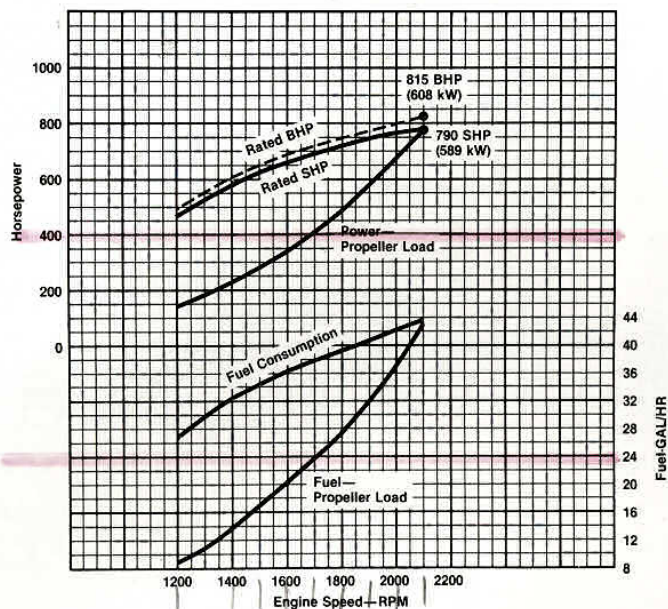
Gross Power	815 BHP (608 kW) @ 2100 RPM
Net Power	790 SHP (589 kW) @ 100 RPM

Equipment Specifications

Air Inlet Housing—With manual shutdown
Aftercooler—Three-pass
Alternator—24 volt, 65 amp, flange mounted
Cooling System—Heat exchanger with cast iron expansion tank and raw water pump. Keel cooling available option
Crankcase vapor collectors with silencers
DDEC—Detroit Diesel Electronic Controls
Engine Mounts—Solid mounts for both engine and marine gear
Exhaust System—Fresh water-cooled manifolds and twin turbine housings
Factory Installed Marine Gear Options—DD 520-IV, 2.02, 2.97, 3.44, 4.03
Flywheel Housing—SAE #1 (SAE #0 optional)
Fuel System—Cam operated electronic unit injectors with low pressure USCG type A external hoses and fuel filters
Governor—DDEC
Lube Oil Filter—Full flow, spin on
Oil Pan—Cast iron, designed for 0°-15° inclination angle, rear sump
Starting Motor—24 volt
Vibration Damper—Viscous torsional damper

Performance Curve

Model 12V-92TA—Intermittent



Rating Explanation

RATED BHP Basic engine gross horsepower.

RATED SHP Net power available at the marine gear output flange.

PROPELLER LOAD Indicates horsepower absorbed by a typical fixed pitch propeller.

POWER OUTPUT Guaranteed within 5% at rated ambient conditions

MARINE INTERMITTENT The marine intermittent rating applies to medium to high speed commercial boats that operate at moderate to low load factors. These are boats intended for commercial service where 3,000 hours or less (3,500 hours for Series 149 engine) are accumulated annually. Normal or continuous cruising RPM should be limited to 95% of rated RPM, with intermittent use of rated power permitted. Typical examples include crewboats, water taxis, pilot boats, ferryboats, lobster boats, party fishing boats, charter sportfisherman, and patrol boats.

Consult your authorized Detroit Diesel Corporation representative for the rating that will apply to your vessel.

DETROIT DIESEL

CORPORATION



13400 Outer Drive, West / Detroit, Michigan 48239-4001

Telephone: 313-592-5000

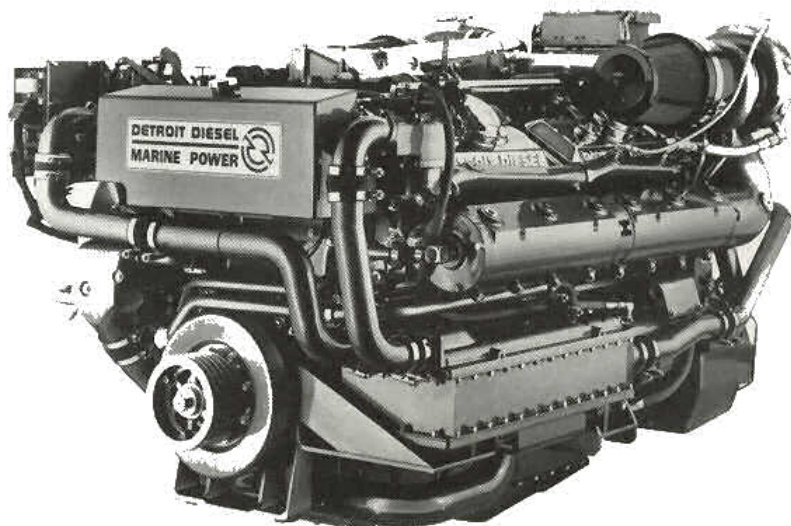
FAX: 313-592-7288



DETROIT DIESEL

**12V-92TA
1080 BHP**

Marine Pleasure Craft



General Specifications

Basic Engine	12V-92TA
Model	8122-7400
Description	Turbocharged-Aftercooled with Bypass Blower
Number of Cylinders	12
Bore and Stroke	4.84 in x 5.00 in (123 mm x 127 mm)
Displacement	1104 cu in (18.1 liters)
Compression Ratio	17.0 to 1
Weight (dry)	4895 lbs (2225 kg)

Rated Power Output—Maximum 145 Injector

Gross Power	1080 BHP (805 kW) @ 2300 RPM
Net Power	1040 SHP (775 kW) @ 2300 RPM

Rated Power Output—Intermittent-Maximum

Gross Power	900 BHP (671 kW) @ 2300 RPM
Net Power	870 SHP (649 kW) @ 2300 RPM

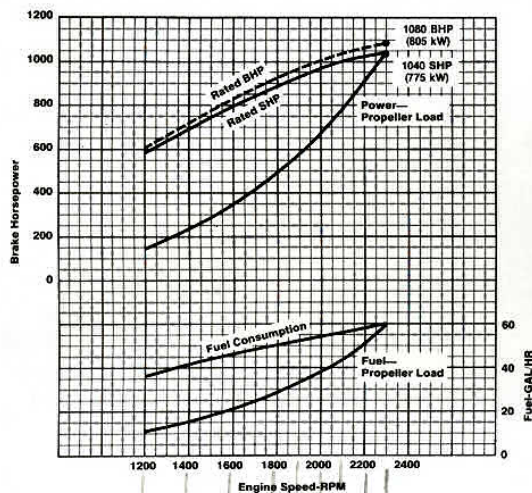
Equipment Specifications

Air Inlet Housing—With manual shutdown
Aftercooler—Two-pass with precooled coolant supply
Alternator—24 volt, 65 amp, flange mounted
Cooling System—Low profile heat exchanger with aluminum expansion tank and raw water pump
Crankcase vapor collectors with silencers
Crankshaft Pulley—5 Grooves, .50 inch wide
Engine Mounts
Exhaust System—Fresh water-cooled manifolds and twin turbine housings
Flywheel Housing—SAE #1
Fuel System—Cam operated unit injectors with low pressure USCG type A external hoses, fuel filters and cooler
Governor—Variable speed
Lube Oil Filter—Full flow, spin on
Marine Gear—Available with Detroit Diesel-232EV (1.29, 1.50, 1.76, 1.96 reduction ratios)
Oil Pan—Cast, designed for 15° inclination angle, rear sump
Starting Motor—24 volt
Vibration Damper—Viscous torsional damper

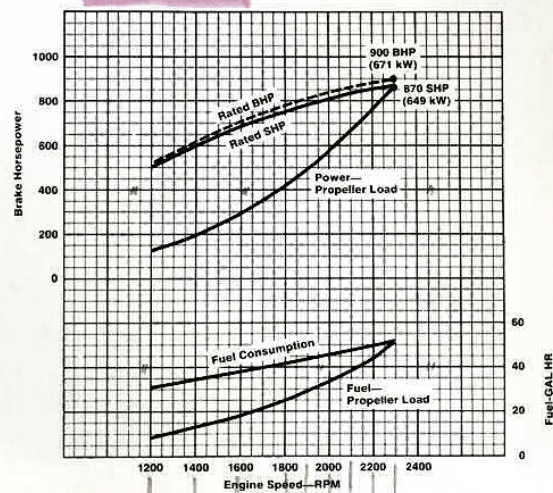
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Performance Curves

Model 12V-92TA—Maximum



Model 12V-92TA—Intermittent-Maximum



Rating Explanation

RATED BHP Basic engine gross horsepower.

Rated SHP Net power available at the marine gear output flange.

PROPELLER LOAD indicates horsepower absorbed by a typical fixed pitch propeller.

POWER OUTPUT guaranteed within 5% at rated ambient conditions.

MARINE MAXIMUM The marine maximum rating applies to high performance boats where speed is of primary importance and overall load factors are low. Normal or continuous cruising RPM should be limited to 90% of rated engine RPM, and the use of full rated power should be limited to 10% (average) of operating time. This rating is normally reserved for privately-owned yachts in non-revenue applications with an average annual hour accumulation of 500 hrs.

MARINE INTERMITTENT-MAXIMUM The intermittent-maximum rating is reserved for privately-owned yachts with long-range cruising capability and/or used in seasonal charter operation. Normal or continuous cruising RPM should be limited to 90% of the rated engine RPM and the use of full rated power should be limited to 10% (average) of operating time. All boats in this category are limited to a maximum of 1,000 hours per year.

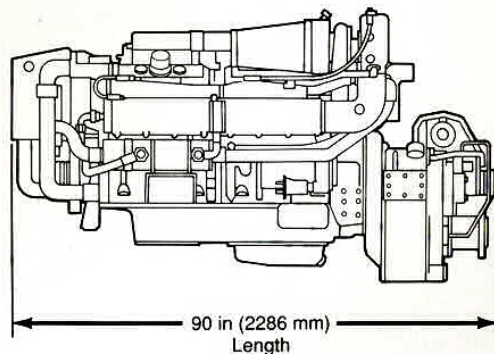
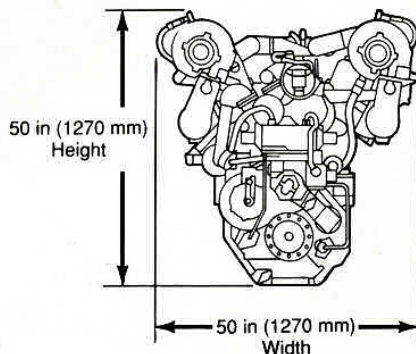
NOTE: Other boats; e.g., fire, police, with an overall duty cycle similar to maximum or intermittent-maximum may be applied at the appropriate rating.

Consult your authorized Detroit Diesel Corporation representative for the rating that will apply to your vessel.

Dimensional Drawing

Model 8122-7400
12V-92TA

Approximate dimensions shown.
For complete dimensional information,
refer to installation drawing 2SA521.



DETROIT DIESEL
CORPORATION



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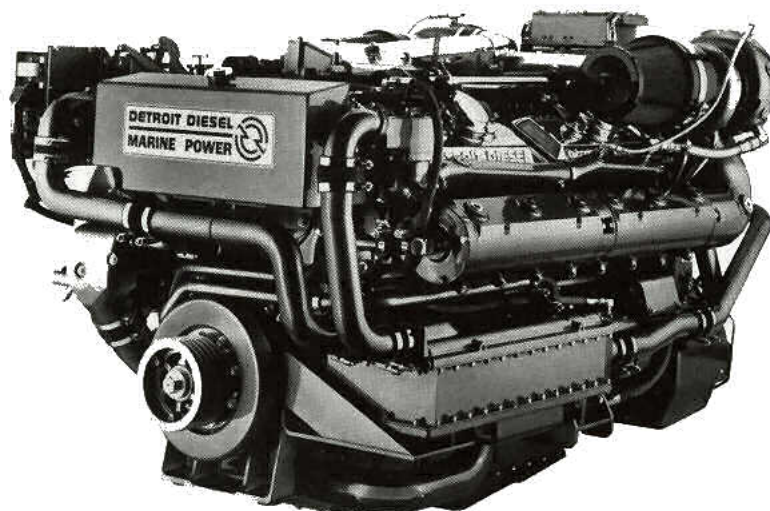


DETROIT DIESEL



**12V-92TA DDEC
1110 BHP**

Marine Pleasure Craft



General Specifications

Basic Engine	12V-92TA
Model	8122-7B00
Description	Turbocharged-Aftercooled with Bypass Blower
Control	DDEC
Number of Cylinders	12
Bore and Stroke	4.84 in x 5.00 in (123 mm x 127 mm)
Displacement	1104 cu in (18.1 liters)
Compression Ratio	15.0 to 1
Weight (dry)	5741 lbs (2604 kg)

Rated Power Output—Maximum

Gross Power	1110 BHP (828 kW) @ 2300 RPM
Net Power	1075 SHP (802 kW) @ 2300 RPM

Equipment Specifications

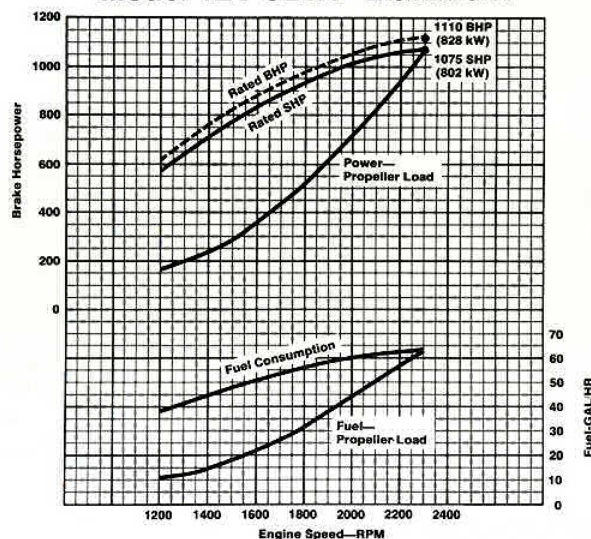
Air Inlet Housing—With manual shutdown
Air Silencer—Two
Aftercooler—Two-pass with precooled coolant supply
Alternator—24 volt, 65 amp, flange mounted
Cooling System—Low profile heat exchanger with aluminum expansion tank and raw water pump
Crankshaft Pulley—5 Grooves, .50 inch wide
DDEC—Detroit Diesel Electronic Control
Engine Mounts
Exhaust System—Fresh water-cooled manifolds and twin turbine housings
Flywheel Housing—SAE #1
Fuel System—Cam operated electronic unit injectors with low pressure USCG type A external hoses, fuel filters and cooler
Lube Oil Filter—Full flow, spin on
Marine Gear—Detroit Diesel-232EV (1.29, 1.50, 1.76, 1.96 reduction ratios)
Oil Pan—Cast iron, designed for 15° inclination angle, rear sump
Starting Motor—24 volt
Vibration Damper—Viscous torsional damper

Rating conditions: ISO 3046, SAE J1349, SAE J1228
77°F (25°C) and 29.31 in. Hg. (99kPa) Barometer (Dry)

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

Performance Curve

Model 12V-92TA—Maximum



Rating Explanation

RATED BHP Basic engine gross horsepower.

Rated SHP Net power available at the marine gear output flange.

PROPELLER LOAD indicates horsepower absorbed by a typical fixed pitch propeller.

POWER OUTPUT guaranteed within 5% at rated ambient conditions.

MARINE MAXIMUM The marine maximum rating applies to high performance boats where speed is of primary importance and overall load factors are low. Normal or continuous cruising RPM should be limited to 90% of rated engine RPM, and the use of full rated power should be limited to 10% (average) of operating time. This rating is normally reserved for privately-owned yachts in non-revenue applications with an average annual hour accumulation of 500 hrs.

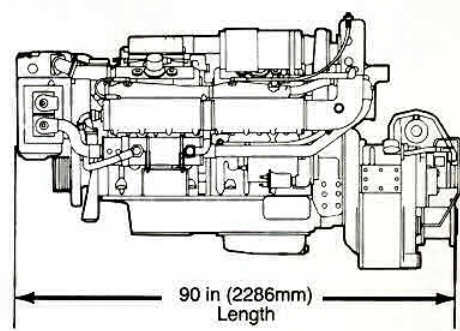
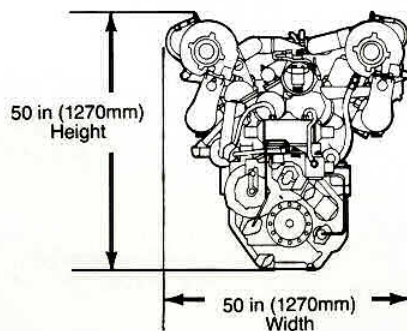
NOTE: Other boats; e.g., fire, police, with an overall duty cycle similar to maximum or intermittent-maximum may be applied at the appropriate rating.

Consult your authorized Detroit Diesel Corporation representative for the rating that will apply to your vessel.

Dimensional Drawing

Model 8122-7B00
12V-92TA

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



DETROIT DIESEL
CORPORATION



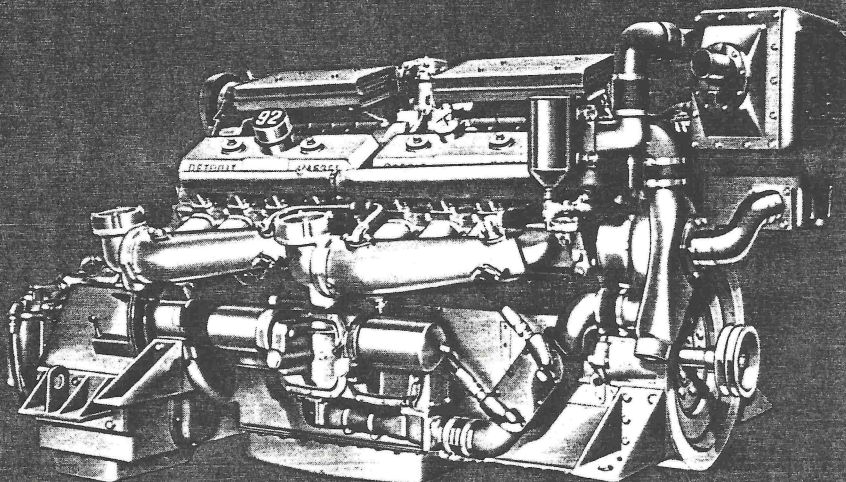
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FAX: 313-592-7288

Detroit Diesel Engines

marine models

16V-92
760 hp

Typical 16V-92
Marine Model



specifications

Basic Engine	16V-92
Model-Port	8162-3000
Starboard	8162-7000
Description	Naturally Aspirated
Number of Cylinders	16
Bore and Stroke	4.84 in × 5 in (123 mm × 127 mm)
Displacement	1472 cu in (24.14 liters)
Compression Ratio	19 to 1
Dimensions (approx.):	
Length	115 in (2921 mm)
Width	49 in (1245 mm)
Height	58 in (1473 mm)
Net Weight (dry)	7760 lbs (3620 kg)

Rated Power Output

Continuous	
Injectors	9275
Rated Gross Power	626 BHP (467 kW) @ 1800 RPM*
Rated Net Power	600 SHP (448 kW) @ 1800 RPM*
Intermittent	
Injectors	9280
Rated Gross Power	720 BHP (537 kW) @ 2100 RPM*
Rated Net Power	690 SHP (515 kW) @ 2100 RPM*
Maximum	
Injectors	9285
Rated Gross Power	760 BHP (567 kW) @ 2100 RPM*
Rated Net Power	725 SHP (541 kW) @ 2100 RPM*

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

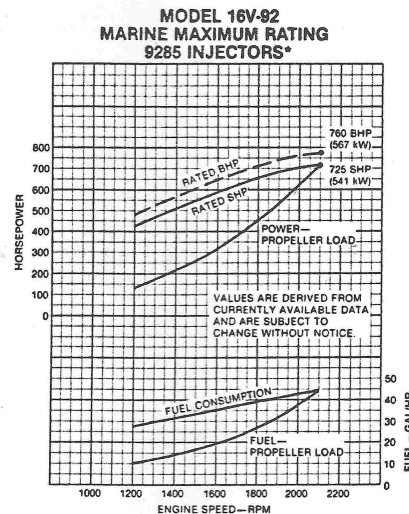
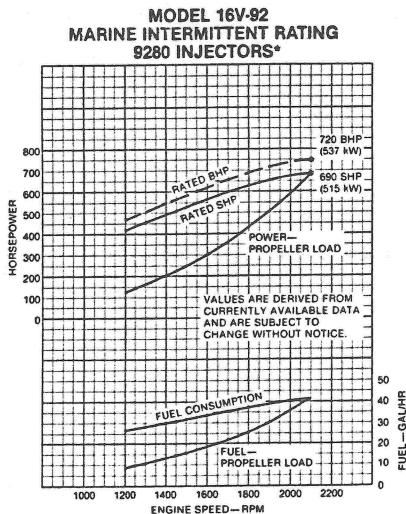
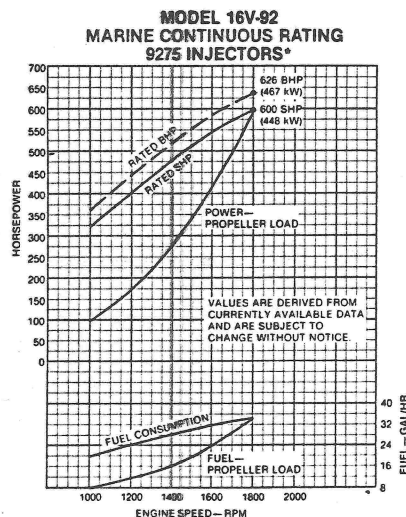
Values are derived from currently available data and are subject to change without notice or obligation.

standard equipment

- Air Inlet Housing
- Air Silencer
- Alternator—24 volt, 50 amp
- Crankshaft Pulley
- Engine Mounts—Includes mounts for both engine and marine gear
- Flywheel Housing—SAE #0
- Fuel Filters—Primary & secondary
- Governor—Variable speed
- Heat Exchanger—Includes raw water pump & piping
- Injectors—Cam operated, unit type, clean tip
- Instruments—Includes ammeter, hourmeter, tachometer, plus oil pressure gauges and water temperature gauges for both engine and marine gear
- Lube Oil Cooler
- Lube Oil Filter—Dual full-flow, spin-on
- Marine Gear—Twin Disc, MG 518 & MG 520 (opt.), reverse and reduction
- Oil Pan—Stamped steel for 0-15° inclination angle, rear sump
- Starting Motor—24 volt
- Vibration Damper—Viscous torsional damper
- Water Filter—Fresh water filter with 65-gallon (246.0 liters) capacity

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

16V-92



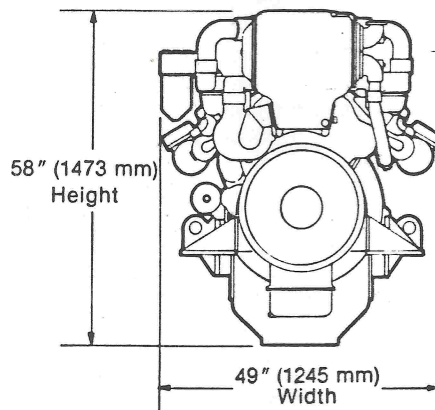
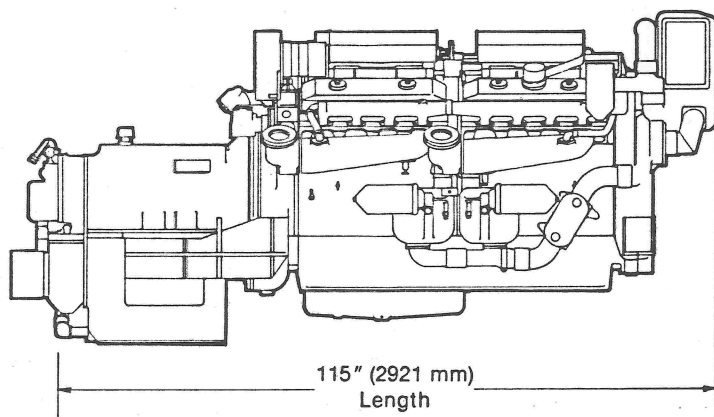
Rating Explanation

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)

Model 8162-7000



Approximate dimensions shown. For complete dimensional information, refer to installation drawing 2SA437.

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Atlanta, Georgia
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Detroit Diesel Allison Division of General Motors

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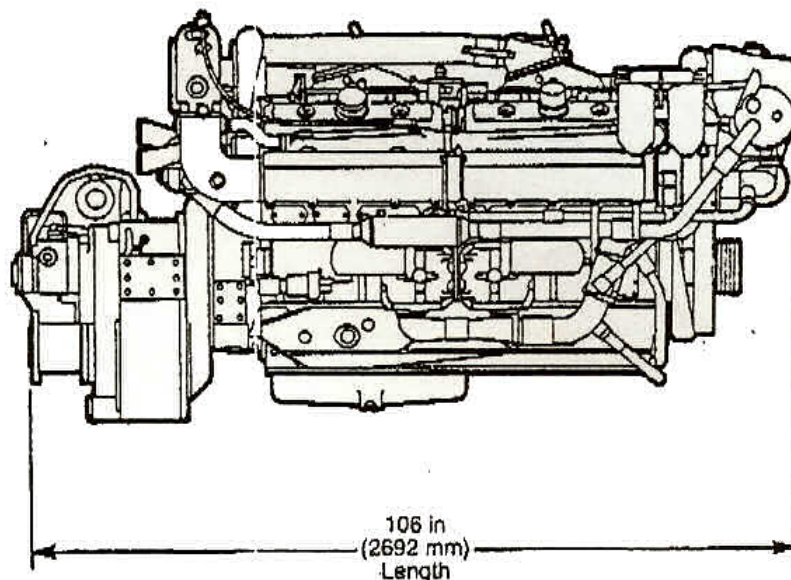
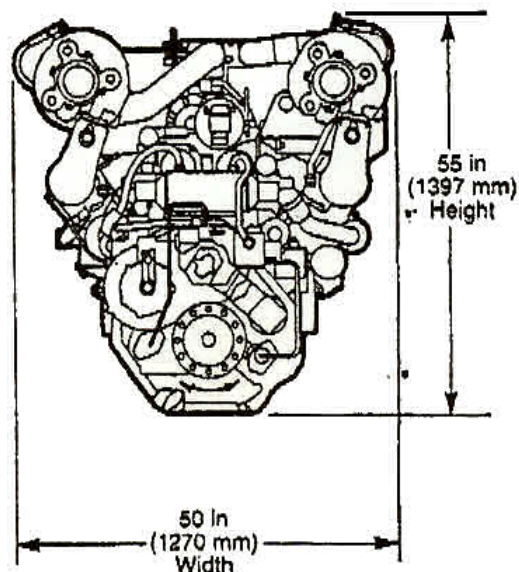
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DETROIT DIESEL Series 92

**Marine Model
Crewboat**

16V-92TA 960 BHP



General Specifications

Basic Engine	16V-92TA
Model	8162-7401
Description	Turbocharged-Aftercooled with Bypass Blower
Number of Cylinders	16
Bore and Stroke	4.84 in x 5.00 in (123 mm x 127 mm)
Displacement	1472 cu in (24.1 liters)
Compression Ratio	17.0 to 1
Weight (dry)	6925 lbs (3141 kg)

Rated Power Output—Maximum

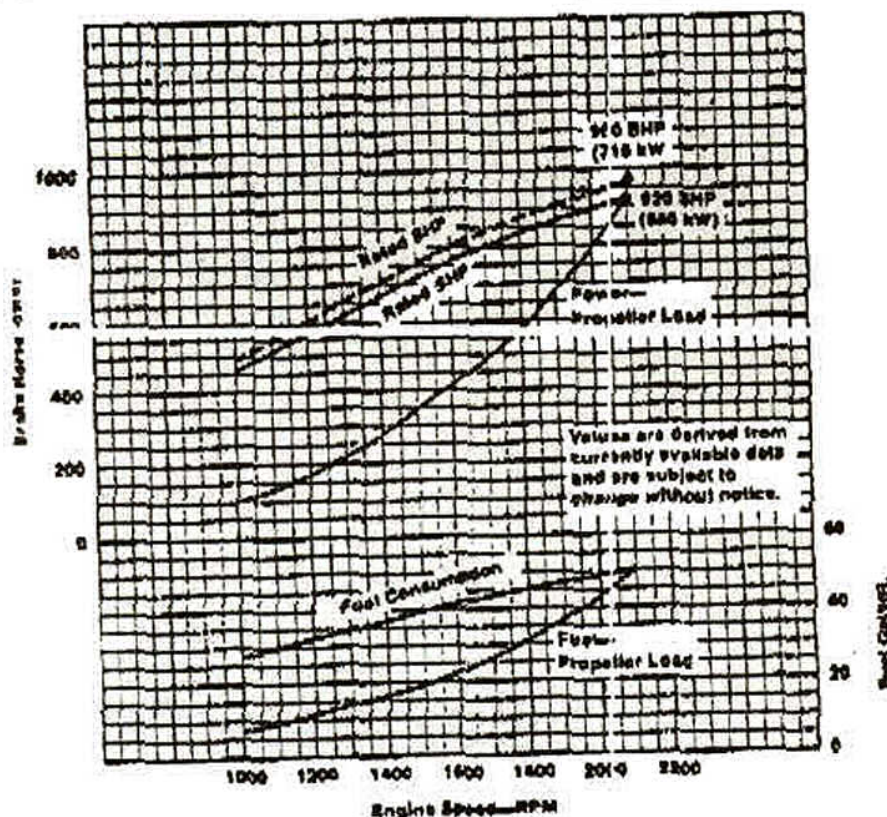
Injectors	9E95
Gross Power	960-BHP (716 kW) @ 2100 RPM
Net Power	920 SHP (686 kW) @ 2100 RPM

Equipment Specifications

Air Inlet Housing	With manual shutdown
Aftercooler	Three-pass jacket cooler supply
Alternator	24 volt, 65 amp, flange mounted
Crankshaft Pulley	3 grooves, .50 inch wide
Exhaust System	Fresh water-cooled manifolds and turbine housings
Factory Installed Marine Gear Options	DD273V, 1.64, 1.83, 2.03, 2.55
Flywheel Housing	SAE #1
Fuel System	Cam operated unit injectors with low pressure USCG type A external hoses, fuel filters
Governor	Variable speed
Lube Oil Filter	Full flow
Oil Pan	Cast Iron, designed for 0°-15° inclination angle, rear sump
Starting Motor	24 volt

Performance Curve

Model 16V-92TA—Intermittent



Rating Explanation

RATED BHP Basic engine gross horsepower.

RATED SHP Net power available at the marine gear output flange.

PROPELLER LOAD indicates horsepower absorbed by a typical fixed pitch propeller.

POWER OUTPUT guaranteed within 5% at rated ambient conditions.

MARINE INTERMITTENT The intermittent rating applies to medium to high speed commercial boats that operate at moderate to low load factors. These are boats intended for commercial service where 3,000 hours or less (3,500 hours for Series 149 engine) are accumulated annually. *Normal or continuous* cruising RPM should be limited to 95% of rated RPM, with intermittent use of rated power permitted. Typical examples include crewboats, water taxis, pilot boats, ferryboats, lobster boats, party fishing boats, charter sportfisherman, and patrol boats.

Consult your authorized Detroit Diesel Corporation representative for the rating that will apply to your vessel.

DETROIT DIESEL

CORPORATION



13400 Outer Drive, West / Detroit, Michigan 48239-4001

Telephone: 313-592-5000

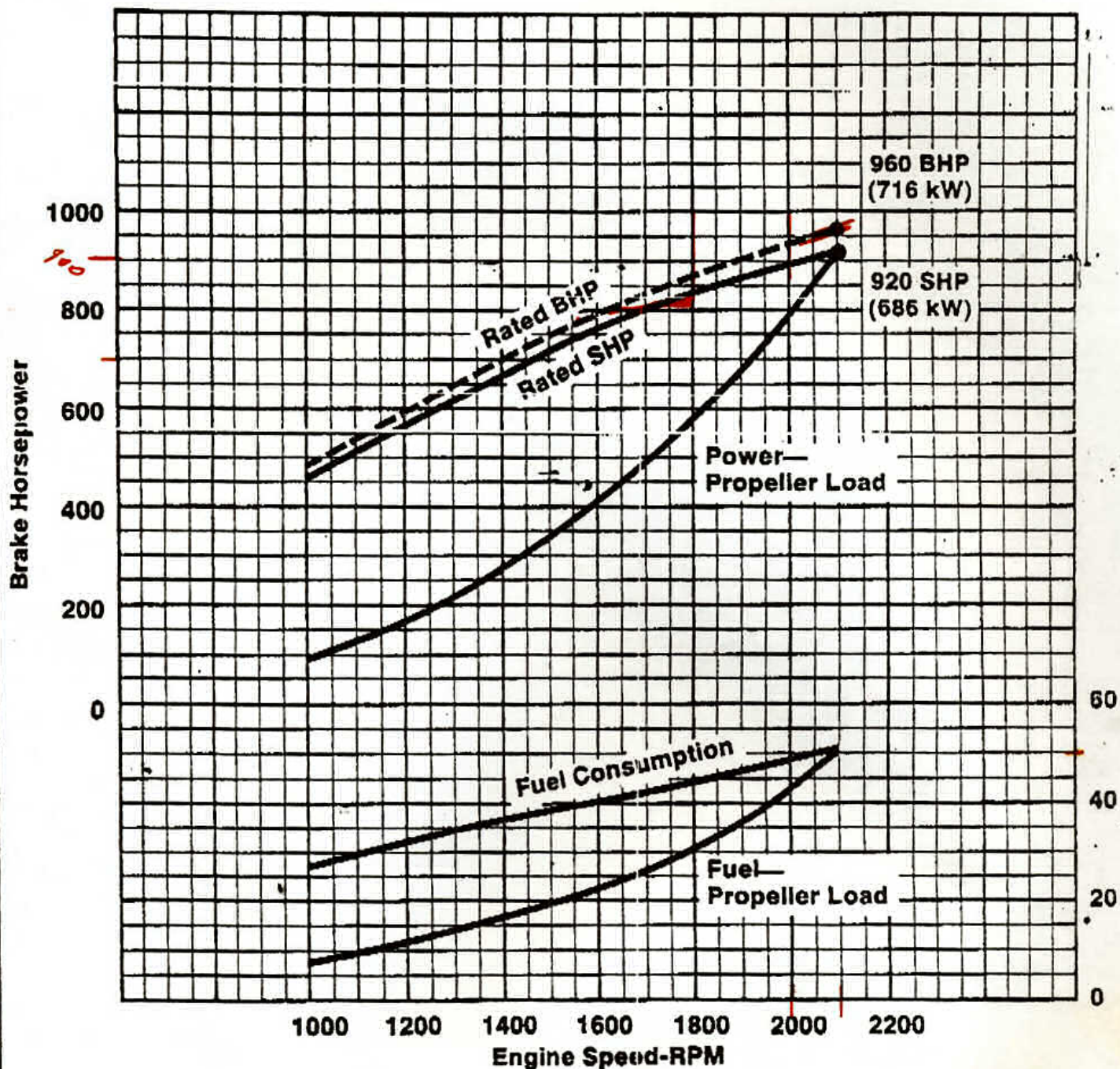
Telex: 4320091 / TWX: 810-221-1649

FAX: 313-592-7288



16V-92TA
Marine
Rating: Intermittent
960 BHP @ 2100 RPM
920 SHP @ 2100 RPM
Injector: 9E95
Turbocharger: TW8401 (1.19 A/R)

ENGINE PERFORMANCE CURVE



ACCESSORIES: TWIN DISC GEAR, (2) RAW WATER PUMPS, ALTERNATOR 24V, 65A

Air Intake Restriction - In. H₂O (kPa) . . 10 (2.5)

Exhaust Back Pressure - In. H₂O (kPa) . . 15 (3.1)

- Power output guaranteed within 5% at SAE J1228 conditions:
77°F (25°C) air inlet temperature; 29.31 in. Hg (99kPa) dry barometer;
100°F (39°C) fuel inlet temperature (.853 specific gravity at 60°F).
Power rated in accordance with NMMA Procedure.

- Conversion factors: Power: kW = bhp × 0.746
Fuel: L/hr = gal/hr × 3.785

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

Certified by:

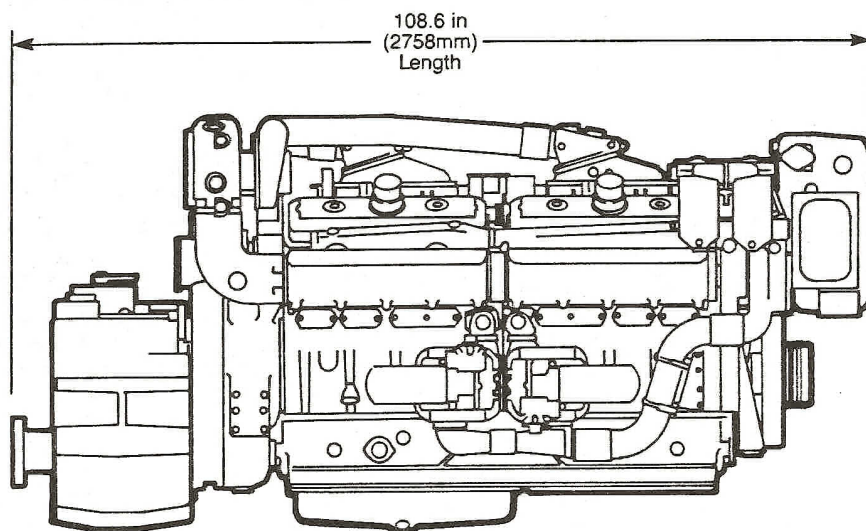
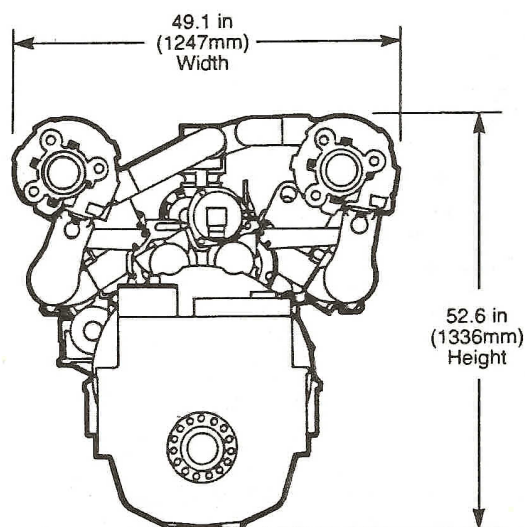
Mark S. Kuper

Curve No.
E4-8162-32-5

Date: 4-12-88
Rev./Date: 1/10-9-8
Sht. 1 of 4

Detroit Diesel Allison Marine Model

**16V-92TA
1400 BHP
Pleasure Craft**



General Specifications

Basic Engine	16V-92TA
Model	8162-7400
Description	Turbocharged-Aftercooled with Bypass Blower
Number of Cylinders	16
Bore and Stroke	4.84 in x 5.00 in (123 mm x 127 mm)
Displacement	1472 cu in (24.1 liters)
Compression Ratio	17.0 to 1
Weight (dry)	7800 lbs (3538 kg) (est.)

Rated Power Output—Maximum

Injectors	145
Gross Power	1400 BHP (1044 kW) @ 2300 RPM
Net Power	1350 SHP (1007 kW) @ 2300 RPM

Equipment Specifications

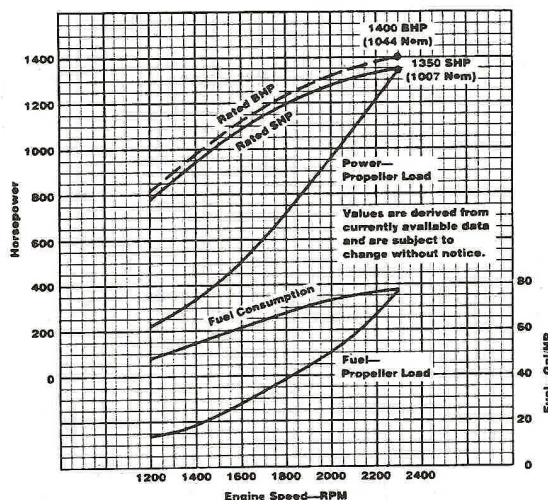
Aftercooler	Two-pass with precoded coolant supply (Boostcooler)
Air Inlet Housing	With manual shutdown
Air Silencer	
Alternator	24 volt, 65 amp
Crankshaft Pulley	5 Grooves, .50 wide
Engine Mounts	
Exhaust Manifold	Fresh water cooled manifolds and twin turbine housings
Factory Installed Marine Gear Options	Without gear for custom installed gear, or *ZF BW 255 (1.51, 2.03, 2.46:1 reduction ratio)
Flywheel Housing	SAE #1
Fuel System	Cam operated unit injectors with low pressure USCG type A external hoses, fuel filters and cooler
Governor	Variable speed
Heat Exchanger	*Includes 2 raw water pumps & piping
Lube Oil Cooler	64 plates
Lube Oil Filter	Dual full flow, spin on
Oil Pan	Stamped steel for 0-15° inclination angle, rear sump
Starting Motors	Two 24 volt
Vibration Damper	Viscous torsional damper

Rating conditions: ISO 3046, SAE J1349, SAE J1228
77°F (25°C) and 29.31 in. Hg. (99kPa) Barometer (Dry)

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

Performance Curves

Model 16V-92TA—Maximum



Rating Explanation

RATED BHP Basic engine gross horsepower.

Rated SHP Net power available at the marine gear output flange.

PROPELLER LOAD indicates horsepower absorbed by a typical fixed pitch propeller.

POWER OUTPUT guaranteed within 5% at rated ambient conditions.

MARINE MAXIMUM The marine maximum rating applies to high performance boats where speed is of primary importance and overall load factors are low. Normal or continuous cruising RPM should be limited to 90% of rated engine RPM, and the use of full rated power should be limited to 10% (average) of operating time. This rating is normally reserved for privately-owned yachts in non-revenue applications with an average annual hour accumulation of 500 hrs.

MARINE INTERMITTENT- MAXIMUM The intermittent-maximum rating is reserved for privately-owned yachts with long-range cruising capability and/or used in seasonal charter operation. Normal or continuous cruising RPM should be limited to 90% of the rated engine RPM and the use of full rated power should be limited to 10% (average) of operating time. All boats in this category are limited to a maximum of 1,000 hours per year.

NOTE: Other boats; e.g., fire, police, with an overall duty cycle similar to maximum or intermittent-maximum may be applied at the appropriate rating.

Consult your authorized Detroit Diesel Allison representative for the rating that will apply to your vessel.



Detroit Diesel Allison

Division of General Motors

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Demirhan Sadıkoğlu
2015