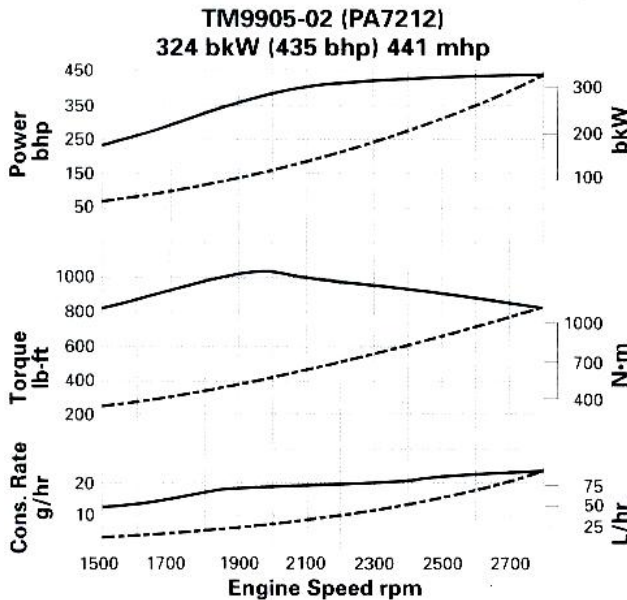


## PERFORMANCE CURVES

Turbocharged-Aftercooled (DITA) — Separate Circuit Aftercooling 30° C (86° F) sea water

### E Rating – 2800 rpm



Prop Demand ----- 3.0 Exponent  
(for displacement hulls only)  
Engine Performance Parameters:  
Power ± 3%  
Specific Fuel Consumption ± 3%  
Fuel Rate ± 5%

Cubic Prop Demand Curve Data  
(for displacement hulls only)

| Speed rpm | Power kW | Torque N-m | Fuel Cons g/bkW-hr | Fuel Rate L/hr |
|-----------|----------|------------|--------------------|----------------|
| 2800      | 325      | 1107       | 235                | 90.7           |
| 2600      | 260      | 954        | 217                | 67.3           |
| 2400      | 204      | 813        | 209                | 50.8           |
| 2200      | 157      | 683        | 206                | 38.6           |
| 2000      | 118      | 565        | 207                | 29.2           |
| 1800      | 86       | 457        | 215                | 22.0           |
| 1700      | 73       | 408        | 222                | 19.2           |
| 1600      | 61       | 361        | 229                | 16.6           |
| 1500      | 50       | 318        | 232                | 13.8           |

Max Power Curve Data

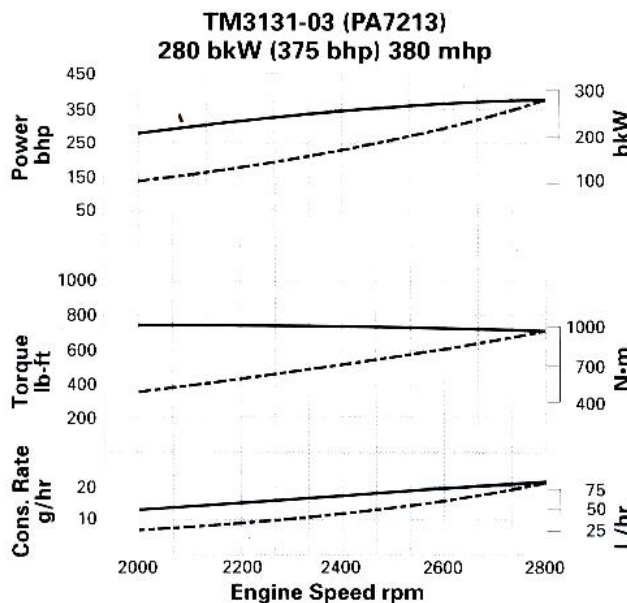
| Power kW | Torque N-m | Fuel Cons g/bkW-hr | Fuel Rate L/hr |
|----------|------------|--------------------|----------------|
| 325      | 1107       | 235                | 90.7           |
| 322      | 1184       | 221                | 85.1           |
| 315      | 1251       | 209                | 78.3           |
| 303      | 1314       | 205                | 73.9           |
| 293      | 1397       | 210                | 73.1           |
| 255      | 1352       | 214                | 65.1           |
| 221      | 1241       | 215                | 56.7           |
| 194      | 1158       | 217                | 50.2           |
| 174      | 1105       | 225                | 46.6           |

| Speed rpm | Power bhp | Torque lb-ft | Fuel Cons lb/bhp-hr | Fuel Rate g/hr |
|-----------|-----------|--------------|---------------------|----------------|
| 2800      | 435       | 816          | .386                | 24.0           |
| 2600      | 348       | 704          | .357                | 17.8           |
| 2400      | 274       | 600          | .344                | 13.4           |
| 2200      | 211       | 504          | .339                | 10.2           |
| 2000      | 159       | 417          | .340                | 7.7            |
| 1800      | 116       | 337          | .353                | 5.8            |
| 1700      | 97        | 301          | .365                | 5.1            |
| 1600      | 81        | 266          | .376                | 4.4            |
| 1500      | 67        | 235          | .381                | 3.6            |

| Power bhp | Torque lb-ft | Fuel Cons lb/bhp-hr | Fuel Rate g/hr |
|-----------|--------------|---------------------|----------------|
| 435       | 816          | .386                | 24.0           |
| 432       | 873          | .363                | 22.5           |
| 422       | 923          | .344                | 20.7           |
| 406       | 969          | .337                | 19.5           |
| 392       | 1030         | .345                | 19.3           |
| 342       | 997          | .352                | 17.2           |
| 296       | 915          | .353                | 15.0           |
| 260       | 854          | .357                | 13.3           |
| 233       | 815          | .370                | 12.3           |

**E RATING** – Planing hull vessels such as pleasure craft, harbor patrol, harbor master, and some fishing and pilot boats.

### E Rating – 2800 rpm



Prop Demand ----- 3.0 Exponent  
(for displacement hulls only)

Cubic Prop Demand Curve Data  
(for displacement hulls only)

| Speed rpm | Power kW | Torque N-m | Fuel Cons g/bkW-hr | Fuel Rate L/hr |
|-----------|----------|------------|--------------------|----------------|
| 2800      | 280      | 956        | 238                | 79.5           |
| 2600      | 224      | 824        | 225                | 60.1           |
| 2400      | 176      | 702        | 217                | 45.5           |
| 2000      | 102      | 490        | 202                | 24.5           |

Max Power Curve Data

| Power kW | Torque N-m | Fuel Cons g/bkW-hr | Fuel Rate L/hr |
|----------|------------|--------------------|----------------|
| 280      | 956        | 238                | 79.5           |
| 269      | 991        | 229                | 73.5           |
| 254      | 1015       | 210                | 63.7           |
| 209      | 1000       | 199                | 49.6           |

| Speed rpm | Power bhp | Torque lb-ft | Fuel Cons lb/bhp-hr | Fuel Rate g/hr |
|-----------|-----------|--------------|---------------------|----------------|
| 2800      | 375       | 703          | .391                | 21.0           |
| 2600      | 300       | 606          | .370                | 15.9           |
| 2400      | 236       | 516          | .357                | 12.0           |
| 2000      | 137       | 360          | .332                | 6.5            |

| Power bhp | Torque lb-ft | Fuel Cons lb/bhp-hr | Fuel Rate g/hr |
|-----------|--------------|---------------------|----------------|
| 375       | 703          | .391                | 21.0           |
| 361       | 729          | .376                | 19.4           |
| 341       | 746          | .345                | 16.8           |
| 280       | 735          | .327                | 13.1           |

**E RATING** – Planing hull vessels such as pleasure craft, harbor patrol, harbor master, and some fishing and pilot boats.

**Engine performance parameters:**

Power  $\pm 3\%$   
Specific Fuel Consumption  $\pm 3\%$   
Fuel Rate  $\pm 5\%$