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## T80 Towing Tractor Performance Data Sheet

### Dimensions

**Overall Length:** 10 metres(m) (incl Tow Pin)  
**Overall Length of Vehicle Body:** 9.32m  
**Overall Height:** 2.08m  
**Height of Main Body:** 1.60m  
**Overall height of Front Elevated Cab (Raised):** 2.38m  
**Overall Width of Body:** 2.75m  
**Overall Width across out swung Mirrors:** 3.25m  
**Wheelbase:** 4.15m  
**Ground Clearance Front:** 20 cms  
**Ground Clearance Sides:** 20 cms  
**Ground Clearance Rear:** 22 cms (ORS Model 28cms)  
**Fuel Tank Capacity:** 110 Gallons, 100 Gallons usable (UK Gallons)

### Weights

**Left Front Reading:** 12,600kgs  
**Right Front Reading:** 12,400kgs  
**Left Rear Reading:** 12,500kgs  
**Right Rear Reading:** 12,500kgs  
**Total Front Axle:** 25,000kgs  
**Total Rear Axle:** 25,000kgs  
**Total Combined GVW (Option 1 model tested):** 50,000kgs

### Speeds

**Forward 1st Gear @ 2500rpm:** 7mph  
**Forward 2nd Gear @ 2500rpm:** 12 mph  
**Forward 3rd Gear @ 2500rpm:** 26 mph  
**Reverse 1st Gear @ 2500rpm:** 6 mph  
**Reverse 2nd Gear @ 2500rpm:** 12 mph  
**Reverse 3rd Gear @ 2500rpm:** 27 mph  
**Speedo Accuracy:** @ 8mph - 8mph, @ 15mph - 14mph  
**Tire Size:** 18 X 25.00 Goodyear Tires  
**Tire Pressures:** 9 Bar

### Rearward Vision Test (Elevated Cab)

**Three Feet Marker Post on Centre Line:** 8.4m  
**Ground Level on Centre Line:** 20.7m



## Turning Circle

**2 Wheel Steer Inside Circle:** 16.50m  
**2 Wheel Steer Outside Circle:** 22m  
**4 Wheel Steer Inside Circle:** 7.50m  
**4 Wheel Steer Outside Circle:** 13.0m  
**2 Wheel Steer Continuous Circle 10 Revolutions**  
**Run Out:** Zero  
**4 Wheel Steer Continuous Circle 10 Revolutions**  
**Run Out:** Zero

## Brakes

**Braking distance from 5 mph First Gear:** 1.50m  
**Braking distance from 10 mph Second Gear:** 5.75m  
**Braking distance from 20 mph Third Gear:** 17m  
**Braking distance from Maximum Rolling Speed (26mph):** 27m  
**Braking Efficiency Test - Tapley Metre Reading:** 30

## Drawbar Pull (Standard Model)

**1st Gear Forward:** 30.1 Tonnes  
**2nd Gear Forward:** 15.4 Tonnes  
**3rd Gear Forward:** 7.8 Tonnes  
  
**1st Gear Reverse:** 31.0 Tonnes  
**2nd Gear Reverse:** 15.6 Tonnes  
**3rd Gear Reverse:** 7.9 Tonnes  
**Engine Recorded (Set) Idle Speed:** 600rpm



## **Noise Test - 2238 Noise Metre dba**

**Average Background Noise:** 49.2 dba

**Average Noise Level Vehicle Left Side @ Idle**

**(700rpm):** 75.9 dba

**Average Noise Level Vehicle Right Side @ Idle**

**(700rpm):** 88.0 dba

**Average Noise Level Vehicle Left Side @**

**2000rpm:** 76.2 dba

**Average Noise Level Vehicle Right Side @**

**2000rpm:** 93.1 dba

**Average Noise Level @ 7.5M Distance - Drive By**

**@ 2000 rpm 1st Gear Nearside:** 83.3 dba

**@ 2000 rpm 1st Gear Offside:** 79.8 dba

**@ 2000 rpm 3rd Gear Nearside:** 83.4 dba

**@ 2000 rpm 3rd Gear Offside:** 79.1 dba

**Average Noise Level - In Cab**

**@ (Front) 1st Gear 2000rpm:** 74.2 dba

**@ (Rear) 1st Gear 2000rpm:** 82 dba

**@ (Front) 3rd Gear 2000rpm:** 76.2 dba

**@ (Rear) 3rd Gear 2000rpm:** 85.5 dba

**Average Noise Level - In Cab**

**@ Standstill @ 2000 rpm Front:** 73.2 dba

**@ Standstill @ 2000 rpm Rear:** 74.8 dba

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## **Environment Test - Kane May Instrument**

Particle readings @ Idle (700 rpm) - Diesel Tune

0.08sfm @ 28 degrees

GAS O2 - 16.7%

CO - 0%

Co2 - 1.8%

Knox - ppm 3907

Particle readings @ (2,600 rpm) - 0.08sfm @ 34 degrees

GAS O2 - 16.7%

CO - 0%

Co2 - 3.2%

Knox - ppm 1776

MOT Test

Smoke Opacity Standard = 2.5K

T80 Actual Reading 1.1K

All of the above readings, have been independently verified by, both the BAA and the various engine and emission control manufacturers. Drawbar Test conducted by Douglas Equipment Ltd.

**(Pictures show T80 prototype tug during testing.)**

