

# SASMEE Locomotive Efficiency Trials, 23/6/2007

## Detailed results

Allan Wallace [www.avocetconsulting.com.au/modeleng](http://www.avocetconsulting.com.au/modeleng)

23/06/2007 11:32:03

Filename: 070623Gdriscoll

Description: 5'g 0-6-0 0-6-0 Kitson Meyer Graeme Driscoll

### Trip summary values...

Trip Time 20.1 min

Trip Distance 3634 m

Average Speed 10.9 kph

Average Power 187 W

Trip Energy 225.5 kJ

### Peak values...

Min, Max Force -4 242 N

Min, Max Speed 0.0 17.3 kph

Min, Max Power -14 690 W

### Calibration values...

External Load Cell

Force offset, gain 23 2.3331

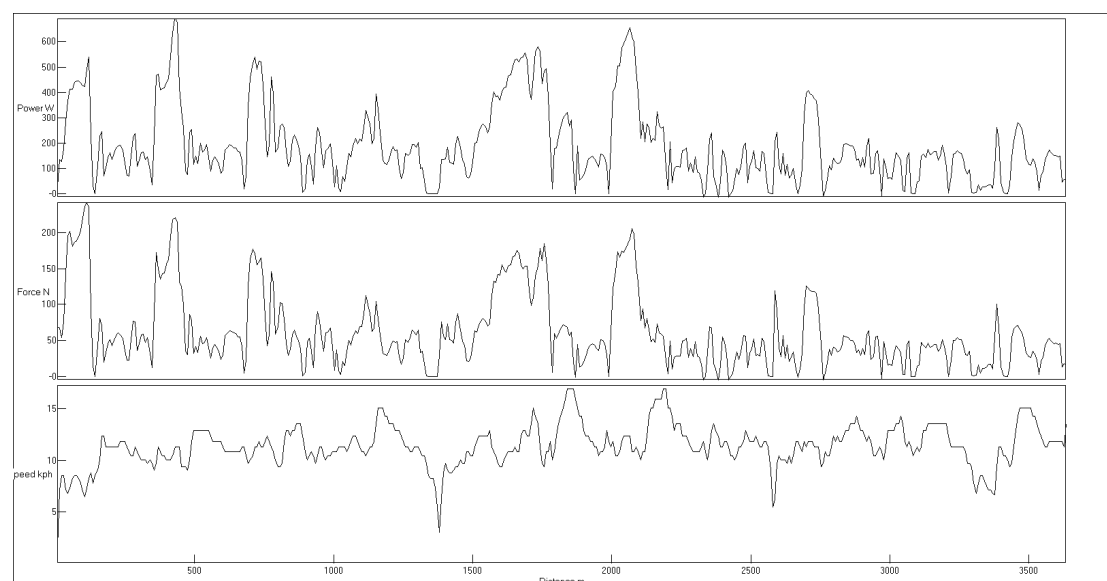
Speed offset, gain 124 -0.0425

Volts offset, gain 0 0.0550

Wheel Diameter 0.0750 m

Coal used: 1469 g

Efficiency: 0.8%



(Note 10 minutes of data lost. Actual run time was 30 min, energy and distance were scaled according to average power and speed for correct efficiency.)

23/06/2007 17:42:16

Filename: 070623AllanW

Description: 3.5" g 0-4-0 Tank Juliet. Allan Wallace

Trip summary values...

Trip Time 31.2 min

Trip Distance 3695 m

Average Speed 7.1 kph

Average Power 51 W

Trip Energy 95.2 kJ

Peak values...

Min, Max Force -1 52 N

Min, Max Speed 0.0 11.4 kph

Min, Max Power -3 98 W

Calibration values...

External Load Cell

Force offset, gain 85 2.3331

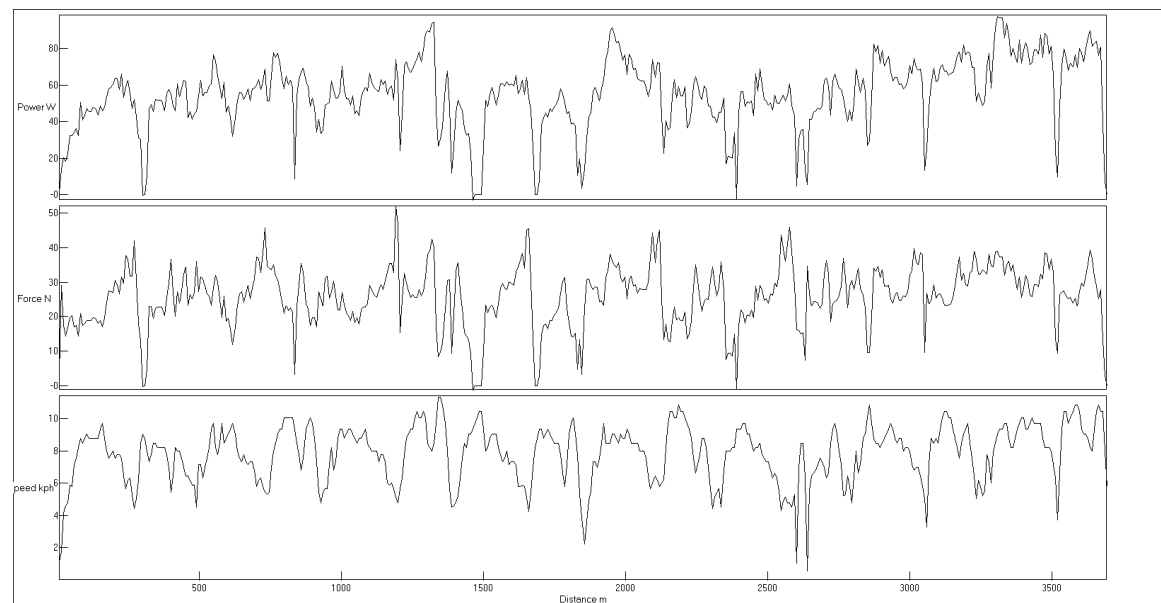
Speed offset, gain 124 -0.0425

Volts offset, gain 0 0.0550

Wheel Diameter 0.0750 m

Coal used: 384 g

Efficiency: 0.8%



23/06/2007 16:20:32

Filename: 070623IanThomas2

Description: 7.25"g 4-6-2 Tender. Ian Thomas

Trip summary values...

Trip Time 31.0 min

Trip Distance 4916 m

Average Speed 9.5 kph

Average Power 410 W

Trip Energy 761.7 kJ

Peak values...

Min, Max Force 0 240 N (Load cell limit)

Min, Max Speed 0.0 14.8 kph

Min, Max Power 0 738 W

Calibration values...

Internal Load Cell

Force offset, gain 58 1.1104

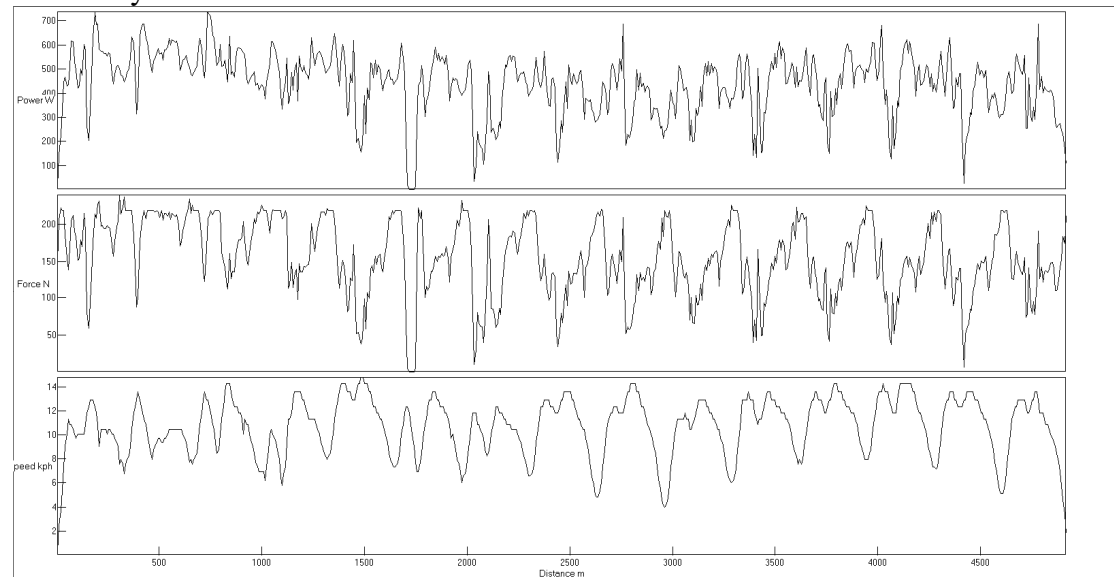
Speed offset, gain 124 -0.0425

Volts offset, gain 0 0.0550

Wheel Diameter 0.0750 m

Coal used: 1964 g

Efficiency: 1.3%



23/06/2007 14:18:08

Filename: 070623JLewi

Description: 7.25" g 0-6-0 Tank Simplex John Lewis

Trip summary values...

Trip Time 29.2 min

Trip Distance 5579 m

Average Speed 11.5 kph

Average Power 238 W

Trip Energy 416.6 kJ

Peak values...

Min, Max Force -8 196 N

Min, Max Speed 0.0 15.8 kph

Min, Max Power -29 574 W

Calibration values...

External Load Cell

Force offset, gain 23 2.3331

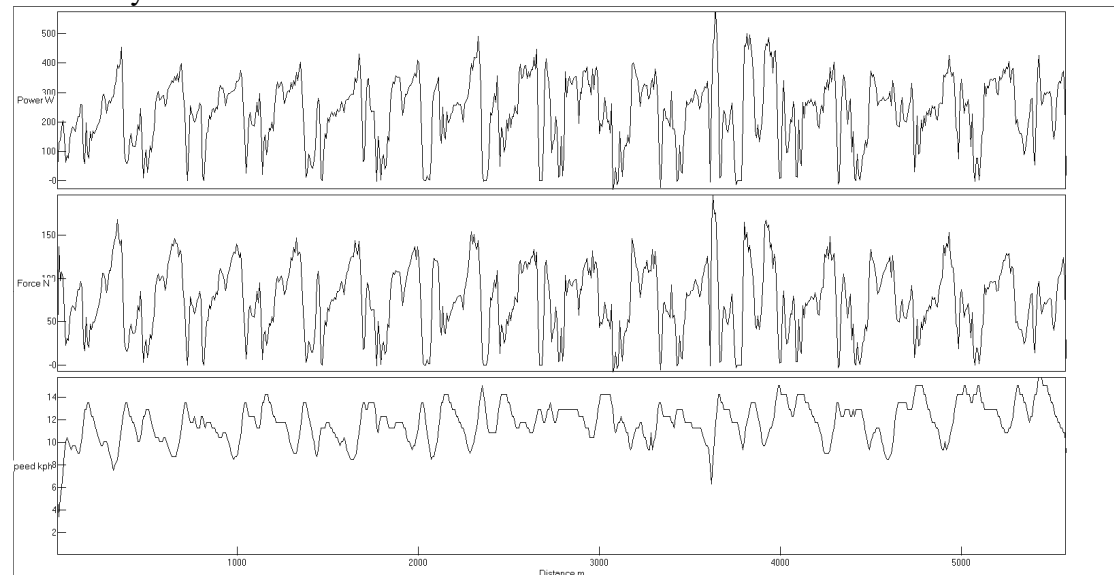
Speed offset, gain 124 -0.0426

Volts offset, gain 0 0.0550

Wheel Diameter 0.0750 m

Coal used: 1544 g

Efficiency: 0.9%



23/06/2007 12:38:49

Filename: 070623JMere

Description: 5''g 4-8-4 SAR 720 tender. John Mere

Trip summary values...

Trip Time 29.7 min

Trip Distance 4562 m

Average Speed 9.2 kph

Average Power 195 W

Trip Energy 346.6 kJ

Peak values...

Min, Max Force -21 166 N

Min, Max Speed 0.0 13.2 kph

Min, Max Power -60 424 W

Calibration values...

External Load Cell

Force offset, gain 24 2.3331

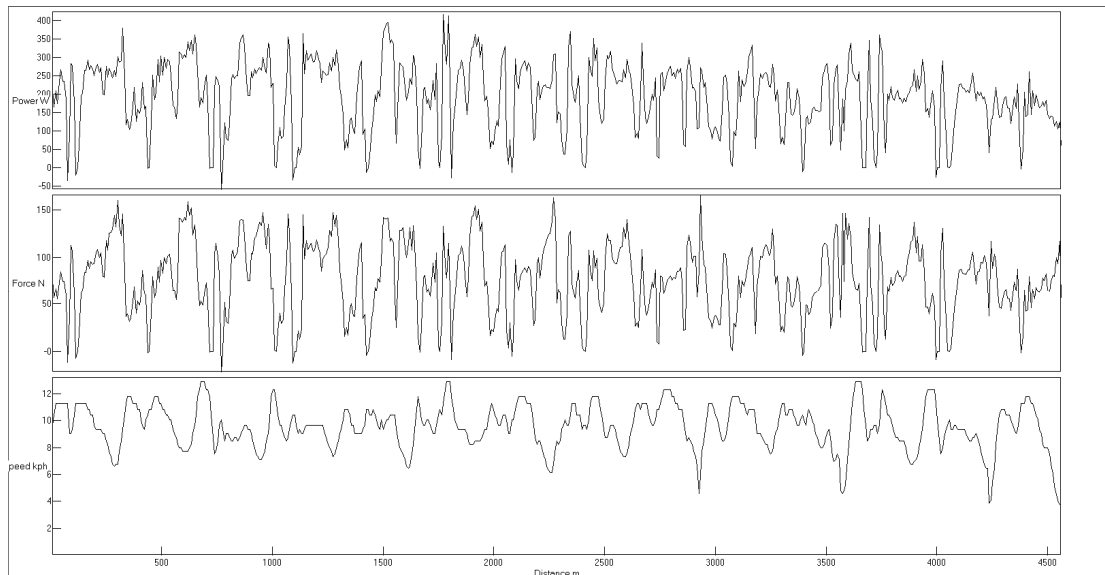
Speed offset, gain 124 -0.0424

Volts offset, gain 0 0.0550

Wheel Diameter 0.0750 m

Coal used: 1683 g

Efficiency: 0.7%



23/06/2007 13:34:20

Filename: 070623Slindsay

Description: 5'g 2-8-0 Gresley. Simon Lindsay

Trip summary values...

Trip Time 30.4 min

Trip Distance 4268 m

Average Speed 8.4 kph

Average Power 195 W

Trip Energy 356.1 kJ

Peak values...

Min, Max Force 0 204 N

Min, Max Speed 0.0 17.0 kph

Min, Max Power 0 555 W

Calibration values...

External Load Cell

Force offset, gain 23 2.3331

Speed offset, gain 124 -0.0424

Volts offset, gain 0 0.0550

Wheel Diameter 0.0750 m

Coal used: 898 g

Efficiency: 1.3%

