PEMBREY

100% SUSPENSION SOUND OF THUNDER

MPH MOTO SUPER TWINS & NEATAFAN SUPER MONO

RACE 3 ROUND 12 - QUALIFER

Start time: 10:58 Distance: 10.192 miles

Weather: Bright Track: Dry

SoT

Rnk	Num	Rider	Machine	Class	Town/Sponsor	Laps	Time	Gap	Average	B.Lap	Speed
1	71	**Allister Haynes**	Triumph Daytona 675R	SoT	www.Team Haynes Racing.com	7	**7:18.586**		83.65	1:01.093	85.79
2	22	**Dave Mackay**	Ducati 899	SoT	True Heroes Racing	7	**7:19.501**	+0.915	83.48	1:01.361	85.42
3	10	**David Irons**	Ducati 1198	SoT	Tom Warner Racing	7	**7:23.328**	+4.742	82.76	1:01.898	84.68
4	31	**James Griffiths**	Triumph Daytona 675	SoT	JB Motorcycle Services	7	**7:34.018**	+15.432	80.81	1:02.564	83.77
5	118	**Jim Coyle**	Triumph 675	SoT	Big Jim RIP	7	**7:34.325**	+15.739	80.75	1:03.454	82.60
6	40	**Neil Appleton**	KTM RC8R 1190	SoT	Bike Torque Racing	7	**7:35.334**	+16.748	80.58	1:03.303	82.80
7	29	**Antony White**	Triumph 675	SoT	Classic Memorials Keynsham	7	**7:37.991**	+19.405	80.11	1:03.654	82.34
8	199	**Martin Thrower**	Ducati 959	SoT	PDQ Precision Ltd	7	**7:39.713**	+21.127	79.81	1:03.808	82.14
9	20	**Chris Whitehouse**	Triumph Daytona 675	SoT	Sutton Scotney	7	**7:40.753**	+22.167	79.63	1:04.653	81.07
10	42	**Rab Lavender**	Triumph Daytona 675	SoT	Ducking Quack Racing	6	**7:46.764**	+1 Lap	67.37	1:15.248	69.65

Best lap: 71 Allister Haynes - 1:01.093

DNFs

	36	**Richard Hewitt**	Suzuki TL 1000 R	SoT	Mirror Image Body Repairs			+7 Laps			

STwin

1	193	**Alan Russell**	Ducati Monster 800	STwin	A & R Racing	7	**7:41.364**		79.52	1:03.959	81.95
2	120	**Paul Wardell**	Suzuki SV 650	STwin	Bee Lighting	7	**7:45.360**	+3.996	78.84	1:04.238	81.59
3	93	**William Holland**	Suzuki SFV 650 Gladi	STwin	JHS Racing	7	**7:45.591**	+4.227	78.80	1:04.665	81.05
4	87	**Sam James**	Suzuki SV 650	STwin	Auto Valet	7	**8:00.363**	+18.999	76.38	1:06.225	79.14
5	35	**Tim Hawkins**	Suzuki SV 650	STwin	Hawkins Racing	7	**8:00.429**	+19.065	76.37	1:06.853	78.40
6	49	**Michael Rees**	Suzuki SV 650	STwin	M I Construction Training	7	**8:01.886**	+20.522	76.14	1:07.260	77.93
7	111	**Greg Maden**	Aprilia 450 RRV	STwin	Allied Mobility	7	**8:04.591**	+23.227	75.71	1:07.698	77.42
8	763	**Claye Harding**	Suzuki SV 650	STwin	O A P Racing	7	**8:23.754**	+42.390	72.83	1:10.050	74.82

Best lap: 193 Alan Russell - 1:03.959

Smono

1	14	**Jay Bellers-Smith**	KTM Smith Bros 717	Smono	RW Engineering Consultancy Ltd	7	**7:36.823**		80.31	1:03.087	83.08
2	99	**Dave Hampton**	Tigcraft Minimoto 45	Smono	Single Cell	7	**7:47.517**	+10.694	78.48	1:04.576	81.16
3	91	**Perry Goldstein**	KTM 610	Smono	Hyside Motorcycles	7	**7:48.435**	+11.612	78.32	1:04.757	80.94
4	19	**Anthony Woolford**	Tigcraft Yamaha 640	Smono	Pembroke Track & Trial	6	**7:57.942**	+1 Lap	65.80	1:17.375	67.74

Best lap: 14 Jay Bellers-Smith - 1:03.087

DNFs

	11	**Steven Colville**	Gas Gas 450	Smono	Llanelli			+7 Laps		1:10.862	73.96

SoT - 90% of WINNER'S AVERAGE RACE SPEED - 75.26 mph
STwin- 90% of WINNER'S AVERAGE RACE SPEED - 71.57 mph
SM - 90% of WINNER'S AVERAGE RACE SPEED - 72.28 mph

No 14 - Jay Bellers-Smith - NEW SMono CLUB CLASS LAP RECORD

100% Suspension
mph moto
NEATAFAN VENTILATION PRODUCTS

PEMBREY

100% SUSPENSION SOUND OF THUNDER

MPH MOTO SUPER TWINS & NEATAFAN SUPER MONO

RACE 3 ROUND 12 - QUALIFER

LAP TIMES

Alan Russell

Lap	Time
START	
1	
2	**1:04.893**
3	**1:04.819**
4	**1:04.729**
5	**1:04.017**
6	**1:03.959**
7	1:04.933

Allister Haynes

Lap	Time
START	
1	
2	**1:02.650**
3	**1:01.601**
4	**1:01.093**
5	1:01.732
6	1:02.497
7	1:01.104

Anthony Woolford

Lap	Time
START	
1	
2	**1:18.297**
3	1:19.220
4	1:18.404
5	**1:18.041**
6	**1:17.375**

Antony White

Lap	Time
START	
1	
2	**1:04.778**
3	**1:03.654**
4	1:04.342
5	1:04.547
6	1:04.379
7	1:03.898

Chris Whitehouse

Lap	Time
START	
1	
2	**1:05.600**
3	**1:04.726**
4	**1:04.663**
5	**1:04.656**
6	**1:04.653**
7	1:05.362

Claye Harding

Lap	Time
START	
1	
2	**1:11.454**
3	**1:10.699**
4	1:11.001
5	1:10.760
6	**1:10.050**
7	1:10.483

Dave Hampton

Lap	Time
START	
1	
2	**1:04.576**
3	1:04.777
4	1:04.926
5	1:05.990
6	1:07.426
7	1:07.008

Dave Mackay

Lap	Time
START	
1	
2	**1:02.670**
3	**1:01.526**
4	**1:01.361**
5	1:02.316
6	1:02.421
7	1:01.666

David Irons

Lap	Time
START	
1	
2	**1:03.079**
3	**1:01.898**
4	1:02.367
5	1:02.018
6	1:03.236
7	1:02.465

Greg Maden

Lap	Time
START	
1	
2	**1:07.951**
3	1:08.257
4	**1:07.875**
5	1:08.017
6	**1:07.698**
7	1:07.882

James Griffiths

Lap	Time
START	
1	
2	**1:04.386**
3	**1:04.194**
4	**1:02.564**
5	1:03.870
6	1:03.612
7	1:04.204

100% Suspension

mph moto

NEATAFAN VENTILATION PRODUCTS

PEMBREY
100% SUSPENSION SOUND OF THUNDER
MPH MOTO SUPER TWINS & NEATAFAN SUPER MONO
RACE 3 ROUND 12 - QUALIFER
LAP TIMES

Jay Bellers-Smith

Lap	Time
START	
1	
2	**1:04.701**
3	**1:04.070**
4	**1:03.087**
5	1:03.436
6	1:03.771
7	1:04.036

Jim Coyle

Lap	Time
START	
1	
2	**1:04.042**
3	**1:03.454**
4	1:04.395
5	1:04.780
6	1:04.195
7	1:03.618

Martin Thrower

Lap	Time
START	
1	
2	**1:04.760**
3	1:05.095
4	**1:04.204**
5	**1:03.808**
6	1:04.196
7	1:04.161

Michael Rees

Lap	Time
START	
1	
2	**1:08.067**
3	**1:07.371**
4	1:08.224
5	**1:07.260**
6	1:07.453
7	1:07.320

Neil Appleton

Lap	Time
START	
1	
2	**1:03.579**
3	1:04.565
4	**1:03.303**
5	1:04.139
6	1:04.039
7	1:04.354

Paul Wardell

Lap	Time
START	
1	
2	**1:06.059**
3	**1:04.595**
4	1:04.705
5	**1:04.238**
6	1:04.660
7	1:06.731

Perry Goldstein

Lap	Time
START	
1	
2	**1:06.422**
3	**1:05.673**
4	1:05.858
5	**1:04.757**
6	1:04.813
7	1:05.415

Rab Lavender

Lap	Time
START	
1	
2	**1:16.262**
3	1:16.701
4	1:16.324
5	**1:15.248**
6	1:17.063

Richard Hewitt

Lap	Time
START	

Sam James

Lap	Time
START	
1	
2	**1:07.719**
3	1:08.252
4	**1:07.293**
5	**1:07.036**
6	**1:06.574**
7	**1:06.225**

Steven Colville

Lap	Time
START	
1	
2	**1:10.862**

Tim Hawkins

Lap	Time
START	
1	
2	**1:07.803**
3	**1:06.853**
4	1:07.202
5	1:07.195
6	1:07.119
7	1:07.173

William Holland

Lap	Time
START	
1	
2	**1:06.064**
3	**1:04.665**
4	1:04.698
5	1:04.979
6	1:05.388
7	1:05.565

PEMBREY

100% SUSPENSION SOUND OF THUNDER

MPH MOTO SUPER TWINS & NEATAFAN SUPER MONO

RACE 3 ROUND 12 - QUALIFER

LAP CHART

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.
Start																							
Lap 1	22	71	10	118	20	31	40	29	99	199	14	193	93	120	91	49	111	35	87	11	763	42	19
Lap 2	22	71	10	118	40	31	20	29	99	199	14	193	93	120	91	49	111	35	87	11	763	42	19
Lap 3	22	71	10	118	40	31	29	20	99	14	199	193	93	120	91	49	35	111	87	763	42	19	
Lap 4	22	71	10	118	31	40	29	14	20	99	199	193	93	120	91	35	49	87	111	763	42	19	
Lap 5	71	22	10	31	118	40	14	29	20	199	193	99	120	93	91	35	49	87	111	763	42	19	
Lap 6	71	22	10	31	118	40	14	29	20	199	193	120	93	99	91	35	87	49	111	763	42	19	
Lap 7	71	22	10	31	118	40	14	29	199	20	193	120	93	99	91	87	35	49	111	763			

100% Suspension

mph moto

NEATAFAN VENTILATION PRODUCTS

PEMBREY

100% SUSPENSION SOUND OF THUNDER

MPH MOTO SUPER TWINS & NEATAFAN SUPER MONO

RACE 13 ROUND 12

STARTING GRID

9 Laps = 13.104 Km

- Pole -

- 1 -	71	Allister Haynes	22	Dave Mackay	10	David Irons	
- 2 -	31	James Griffiths	118	Jim Coyle	40	Neil Appleton	
- 3 -	14	Jay Bellers-Smith	29	Antony White	199	Martin Thrower	
- 4 -	20	Chris Whitehouse	193	Alan Russell	120	Paul Wardell	
- 5 -	93	William Holland	99	Dave Hampton	91	Perry Goldstein	
- 6 -	87	Sam James	35	Tim Hawkins	49	Michael Rees	
- 7 -	111	Greg Maden	763	Claye Harding	42	Rab Lavender	
- 8 -	19	Anthony Woolford	11	Steven Colville	36	Richard Hewitt	

100% Suspension

mph moto

NEATAFAN VENTILATION PRODUCTS

PEMBREY

100% SUSPENSION SOUND OF THUNDER

MPH MOTO SUPER TWINS & NEATAFAN SUPER MONO

RACE 13 ROUND 12

Start time: 14:38 Distance: 13.104 miles

Weather: Bright Track: Dry

SoT

Rnk	Num	Rider	Machine	Class	Town/Sponsor	Laps	Time	Gap	Average	B.Lap	Speed
1	71	**Allister Haynes**	Triumph Daytona 675R	SoT	www.Team Haynes Racing.com	9	**9:19.913**		84.25	1:00.659	86.41
2	22	**Dave Mackay**	Ducati 899	SoT	True Heroes Racing	9	**9:20.309**	+0.396	84.19	1:01.216	85.62
3	10	**David Irons**	Ducati 1198	SoT	Tom Warner Racing	9	**9:27.803**	+7.890	83.08	1:02.153	84.33
4	31	**James Griffiths**	Triumph Daytona 675	SoT	JB Motorcycle Services	9	**9:36.365**	+16.452	81.84	1:02.662	83.64
5	118	**Jim Coyle**	Triumph 675	SoT	Big Jim RIP	9	**9:37.761**	+17.848	81.65	1:02.767	83.50
6	40	**Neil Appleton**	KTM RC8R 1190	SoT	Bike Torque Racing	9	**9:41.146**	+21.233	81.17	1:02.871	83.37
7	29	**Antony White**	Triumph 675	SoT	Classic Memorials Keynsham	9	**9:50.762**	+30.849	79.85	1:04.279	81.54
8	199	**Martin Thrower**	Ducati 959	SoT	PDQ Precision Ltd	9	**9:52.175**	+32.262	79.66	1:04.440	81.34
9	34	**Stephen Valintine**	KTM RC8 1190	SoT	Hartley Wintney	9	**9:54.968**	+35.055	79.28	1:04.626	81.10
10	20	**Chris Whitehouse**	Triumph Daytona 675	SoT	Sutton Scotney	9	**9:57.227**	+37.314	78.98	1:05.243	80.33
11	42	**Rab Lavender**	Triumph Daytona 675	SoT	Ducking Quack Racing	8	**10:05.004**	+1 Lap	69.30	1:13.796	71.02

Best lap: 71 Allister Haynes - 1:00.659

STwin

1	93	**William Holland**	Suzuki SFV 650 Gladi	STwin	JHS Racing	9	**9:41.664**		81.10	1:03.480	82.57
2	193	**Alan Russell**	Ducati Monster 800	STwin	A & R Racing	9	**9:43.329**	+1.665	80.87	1:03.832	82.11
3	120	**Paul Wardell**	Suzuki SV 650	STwin	Bee Lighting	9	**9:57.644**	+15.980	78.93	1:04.404	81.38
4	35	**Tim Hawkins**	Suzuki SV 650	STwin	Hawkins Racing	9	**10:05.263**	+23.599	77.94	1:05.195	80.39
5	49	**Michael Rees**	Suzuki SV 650	STwin	M I Construction Training	9	**10:16.947**	+35.283	76.46	1:07.188	78.01
6	87	**Sam James**	Suzuki SV 650	STwin	Auto Valet	9	**10:17.781**	+36.117	76.36	1:07.398	77.77
7	111	**Greg Maden**	Aprilia 450 RRV	STwin	Allied Mobility	8	**9:27.695**	+1 Lap	73.86	1:09.193	75.75
8	763	**Claye Harding**	Suzuki SV 650	STwin	O A P Racing	8	**9:32.448**	+1 Lap	73.25	1:09.701	75.20

Best lap: 93 William Holland - 1:03.480

Smono

1	14	**Jay Bellers-Smith**	KTM Smith Bros 717	Smono	RW Engineering Consultancy Ltd	9	**9:37.202**		81.72	1:02.810	83.45
2	91	**Perry Goldstein**	KTM 610	Smono	Hyside Motorcycles	9	**10:12.786**	+35.584	76.98	1:05.093	80.52
3	11	**Steven Colville**	Gas Gas 450	Smono	Llanelli	8	**9:35.100**	+1 Lap	72.91	1:10.526	74.32
4	19	**Anthony Woolford**	Tigcraft Yamaha 640	Smono	Pembroke Track & Trial	8	**10:35.100**	+1 Lap	66.02	1:17.439	67.68

Best lap: 14 Jay Bellers-Smith - 1:02.810

DNFs

	99	**Dave Hampton**	Tigcraft Minimoto 45	Smono	Single Cell			+9 Laps		1:05.622	79.87

SoT - 90% of WINNER'S AVERAGE RACE SPEED - 75.83 mph
STwin- 90% of WINNER'S AVERAGE RACE SPEED - 72.99 mph
SM - 90% of WINNER'S AVERAGE RACE SPEED - 73.55 mph

No 14 Jay Bellers-Smith - NEW CLUB SMONO CLASS LAP RECORD

No 193 - Alan Russell - INTERMITTENT TRANSPONDER SIGNAL

100% Suspension
mph moto
NEATAFAN VENTILATION PRODUCTS

PEMBREY

100% SUSPENSION SOUND OF THUNDER

MPH MOTO SUPER TWINS & NEATAFAN SUPER MONO

RACE 13 ROUND 12

LAP TIMES

Alan Russell

Lap	Time
START	
1	
2	**1:03.856**
3	1:03.985
4	1:04.212
5	1:04.047
6	1:04.694
7	**1:03.832**
8	1:03.867
9	1:04.304

Allister Haynes

Lap	Time
START	
1	
2	**1:02.131**
3	**1:01.726**
4	**1:00.659**
5	1:01.488
6	1:02.066
7	1:01.365
8	1:01.529
9	1:01.080

Anthony Woolford

Lap	Time
START	
1	
2	**1:18.987**
3	**1:18.563**
4	**1:18.458**
5	**1:18.327**
6	**1:18.022**
7	**1:17.439**
8	1:17.985

Antony White

Lap	Time
START	
1	
2	**1:04.332**
3	**1:04.279**
4	1:04.591
5	1:04.279
6	1:04.577
7	1:05.452
8	1:05.294
9	1:05.510

Chris Whitehouse

Lap	Time
START	
1	
2	**1:05.352**
3	1:05.533
4	1:05.943
5	1:05.516
6	1:06.744
7	1:05.390
8	**1:05.243**
9	1:06.265

Claye Harding

Lap	Time
START	
1	
2	**1:11.113**
3	**1:10.969**
4	**1:10.754**
5	1:11.243
6	**1:10.496**
7	**1:10.180**
8	**1:09.701**

Dave Hampton

Lap	Time
START	
1	
2	**1:05.622**

Dave Mackay

Lap	Time
START	
1	
2	**1:01.636**
3	**1:01.450**
4	1:01.574
5	1:02.026
6	1:02.455
7	1:01.577
8	**1:01.408**
9	**1:01.216**

David Irons

Lap	Time
START	
1	
2	**1:02.649**
3	**1:02.153**
4	1:02.523
5	1:02.460
6	1:02.344
7	1:02.844
8	1:02.450
9	1:02.684

Greg Maden

Lap	Time
START	
1	
2	**1:09.645**
3	1:09.823
4	1:10.384
5	1:09.701
6	**1:09.193**
7	1:10.010
8	1:09.951

James Griffiths

Lap	Time
START	
1	
2	**1:03.579**
3	**1:03.108**
4	1:03.984
5	**1:02.923**
6	1:03.848
7	1:04.127
8	**1:02.859**

100% Suspension

mph moto

NEATAFAN VENTILATION PRODUCTS

Lap	Time
9	**1:02.662**

Jay Bellers-Smith

Lap	Time
START	
1	
2	**1:03.394**
3	**1:03.255**
4	**1:02.894**
5	1:03.435
6	1:03.643
7	1:04.921
8	1:03.034
9	**1:02.810**

Jim Coyle

Lap	Time
START	
1	
2	**1:03.621**
3	**1:02.767**
4	1:03.691
5	1:03.969
6	1:03.717
7	1:04.691
8	1:03.647
9	1:03.027

Martin Thrower

Lap	Time
START	
1	
2	**1:04.751**
3	1:04.847
4	1:05.799
5	1:05.306
6	**1:04.631**
7	**1:04.440**
8	1:04.514
9	1:04.885

Michael Rees

Lap	Time
START	
1	
2	**1:08.318**
3	**1:07.188**
4	1:07.901
5	1:07.687
6	1:07.864
7	1:07.280
8	1:08.226
9	1:07.270

Neil Appleton

Lap	Time
START	
1	
2	**1:03.407**
3	**1:02.871**
4	1:03.818
5	1:04.079
6	1:03.984
7	1:05.282
8	1:04.191
9	1:04.153

Paul Wardell

Lap	Time
START	
1	
2	**1:04.880**
3	1:05.125
4	1:11.142
5	**1:04.404**
6	1:04.634
7	1:05.078
8	1:04.722
9	1:05.358

Perry Goldstein

Lap	Time
START	
1	
2	**1:06.203**
3	1:06.519
4	1:12.985
5	1:06.449
6	1:07.210
7	1:06.465
8	1:06.613
9	**1:05.093**

Rab Lavender

Lap	Time
START	
1	
2	**1:13.796**
3	1:14.984
4	1:14.213
5	1:14.178
6	1:16.407
7	1:15.001
8	1:15.509

Sam James

Lap	Time
START	
1	
2	**1:08.078**
3	**1:07.528**
4	**1:07.398**
5	1:07.662
6	1:08.098
7	1:07.617
8	1:07.692
9	1:07.840

Stephen Valintine

Lap	Time
START	
1	
2	**1:04.654**
3	**1:04.626**
4	1:05.861
5	1:05.305
6	1:05.315
7	1:05.068
8	1:05.403
9	1:05.092

Steven Colville

Lap	Time
START	
1	
2	**1:11.146**
3	**1:10.635**
4	1:10.783
5	1:11.297
6	1:10.881
7	**1:10.526**
8	1:11.120

Tim Hawkins

Lap	Time
START	
1	
2	**1:06.491**
3	**1:06.228**
4	1:06.373
5	**1:05.195**
6	1:05.578
7	1:06.447
8	1:05.928
9	1:08.258

William Holland

Lap	Time
START	
1	
2	**1:03.890**
3	**1:03.480**

PEMBREY
100% SUSPENSION SOUND OF THUNDER
MPH MOTO SUPER TWINS & NEATAFAN SUPER MONO
RACE 13 ROUND 12
LAP TIMES

Lap	Time
4	1:03.620
5	1:03.782
6	1:04.228
7	1:03.609
8	1:03.552
9	1:03.760

PEMBREY

100% SUSPENSION SOUND OF THUNDER

MPH MOTO SUPER TWINS & NEATAFAN SUPER MONO

RACE 13 ROUND 12

LAP CHART

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
Start																								
Lap 1	22	10	71	118	31	40	14	193	20	93	120	29	199	34	99	35	49	91	87	763	11	111	42	19
Lap 2	22	71	10	118	40	31	14	193	93	20	29	120	199	34	99	35	91	49	87	111	763	11	42	19
Lap 3	22	71	10	118	40	31	14	193	93	29	20	120	199	34	35	91	49	87	111	763	11	42	19	
Lap 4	22	71	10	118	14	40	31	193	93	29	20	199	34	120	35	49	87	91	111	763	11	42	19	
Lap 5	22	71	10	118	14	31	40	93	193	29	20	199	34	120	35	49	87	91	111	763	11	42	19	
Lap 6	71	22	10	118	14	31	40	93	193	29	199	34	20	120	35	49	91	87	111	763	11	42	19	
Lap 7	71	22	10	31	118	14	40	93	193	29	199	34	20	120	35	91	49	87	111	763	11	42	19	
Lap 8	71	22	10	31	14	118	40	93	193	29	199	34	20	120	35	91	49	87	111	763	11	42	19	
Lap 9	71	22	10	31	14	118	40	93	193	29	199	34	20	120	35	91	49	87						

100% Suspension

mph moto

NEATAFAN VENTILATION PRODUCTS

PEMBREY

100% SUSPENSION SOUND OF THUNDER

MPH MOTO SUPER TWINS & NEATAFAN SUPER MONO

RACE 3 ROUND 13 - QUALIFER

STARTING GRID

7 Laps = 10.192 Km

- Pole -

- 1 -	71	Allister Haynes	22	Dave Mackay	10	David Irons		
- 2 -	31	James Griffiths	14	Jay Bellers-Smith	118	Jim Coyle		
- 3 -	40	Neil Appleton	93	William Holland	193	Alan Russell		
- 4 -	29	Antony White	199	Martin Thrower	34	Stephen Valintine		
- 5 -	20	Chris Whitehouse	120	Paul Wardell	35	Tim Hawkins		
- 6 -	91	Perry Goldstein	49	Michael Rees	87	Sam James		
- 7 -	111	Greg Maden	763	Claye Harding	11	Steven Colville		
- 8 -	42	Rab Lavender	19	Anthony Woolford	99	Dave Hampton		

100% Suspension

mph moto

NEATAFAN VENTILATION PRODUCTS