

# 194 E. READER & SONS, Ltd., HIGH SPEED STEAM ENGINE SPECIALISTS, NOTTINGHAM.

DIRECTORS: G. R. THURSFIELD, M. A. DOGGETT, G. S. RANGDALE.

TEST RECORD OF ENGINE NO. 15406/2. SIZE REF. S.F.6. DATE 17/4/36.

COUPLED TO

Generator No. F102A1112. Winding Comp.

Brake Dynamometer.

Volts 110 K.W. 7.5

Dia. to Centre of Brake Rope

S.S. Fulham

th. repl. No

19142

TIME OF DAY	STEAM PRESSURE LBS. SQ. IN. AT ENGINE STOP VALVE	REVS. PER MIN.	VOLTS.	AMPS.	K.W.	WEIGHT IN LBS.			B.H.P.	Indicator Diagram Nos.	I.H.P.	BACK PRESS LBS. SQ. IN.	VACUUM IN INCHES MERCURY	STEAM CONSUMPTION IN LBS.	
						TOP BALANCE	BOTTOM BALANCE	NETT						TOTAL	PER B.H.P. HR.
9.30	100	496	110	68	7.4										
10.0	105	498	110	68	7.4										
10.30	105	497	110	68	7.4										
11.0	95	496	110	68	7.4										
11.30	100	497	110	68	7.4										
12.0	100	498	110	68	7.4										
12.30	102	500	111	68	7.5										
1.0	100	499	110	67	7.3										
1.30	98	497	110	68	7.4										
2.0	100	500	111	69	7.6										
2.30	100	500	111	69	7.6										
3.30	105	501	111	68	7.5										
3.30	100	500	110	68	7.4										

Cylinder tested Hydraulically to 200 lbs. per sq. inch.

## GOVERNOR TEST.

Speed at Full Load 497 R.P.M. Speed at no Load 510 R.P.M.  
Voltage Variation 4  
Speed at no Load 509 R.P.M. Speed at Full Load 496 R.P.M.  
Voltage Variation 4

## PARTICULARS TAKEN AT END OF TEST.

Temperature of Oil 102 °F Max. Oil Pressure 30 Lbs. Sq. Inch.  
Temperature of Armature Windings 102 °F Temperature of Field Coils 109 °F  
Temperature of Commutator 97 °F Temperature of Atmosphere 66 °F

Remarks

Signed

G. S. Rangdale

002620-002630-0060

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system