



Object:-	Compressor
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Object ID:-	1113135	Accession No:-	IF:2016:88
Date:-	0000-00-00	Works Number:-	
Category:-	Machinery		
Collection:-	Internal Fire Core Collection		
Manufacturer:-	Unknown		
Made In:-	Unknown		

Description:-
Unknown small single cylinder compressor

Status:-	Not Running
Condition:-	Fair



Object:-	Bernard, W112		
Object ID:-	1113134	Accession No:-	IF:2016:87
Date:-		Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-	Bernard Moteurs		
Made In:-	France		
Status:-	Not Running		
Condition:-	Fair		



Object:-	Homelite flat twin two-stroke		
Object ID:-	1113133	Accession No:-	IF:2016:86
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-			
Made In:-			
Status:-	Not Running		
Condition:-	Fair		



Object:-	Unknown		
Object ID:-	1113132	Accession No:-	IF:2016:85
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-			
Made In:-			
Status:-	Not Running		
Condition:-	Fair		



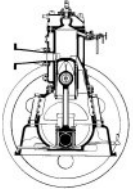
Object:-	Villiers Mk15		
Object ID:-	1113131	Accession No:-	IF:2016:84
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-			
Made In:-			
Status:-	Not Running		
Condition:-	Fair		



Object:-	Coventry Victor flat twin		
Object ID:-	1113130	Accession No:-	IF:2016:83
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-			
Made In:-			
Status:-	Not Running		
Condition:-	Fair		



Object:-	ABC/Ingliss generator		
Object ID:-	1113129	Accession No:-	IF:2016:82
Date:-		Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-	All British (Engine) Co Ltd		
Made In:-	Walton-on Thames, England		
Status:-	Not Running		
Condition:-	Fair		



Object:-	Edgar Westbury 80cc generator		
Object ID:-	1113128	Accession No:-	IF:2016:81
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-			
Made In:-			
Status:-	Not Running		
Condition:-	Fair		



Object:-	ABC Skootamota engine		
Object ID:-	1113127	Accession No:-	IF:2016:80
Date:-		Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-	All British (Engine) Co Ltd		
Made In:-	Walton-on Thames, England		
Status:-	Not Running		
Condition:-	Fair		



Object:-	Brockhouse 2-stroke		
Object ID:-	1113126	Accession No:-	IF:2016:79
Date:-		Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-	Brockhouse Engineering (Southport)		
Made In:-	Southport, England		
Status:-	Not Running		
Condition:-	Fair		



Object:-	Coventry Victor MW1/Midget		
Object ID:-	1113125	Accession No:-	IF:2016:78
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-			
Made In:-			
Status:-	Not Running		
Condition:-	Fair		



Object:-	Douglas		
Object ID:-	1113124	Accession No:-	IF:2016:77
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-			
Made In:-			
Status:-	Not Running		
Condition:-	Fair		



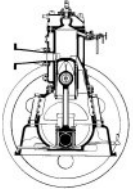
Object:-	Johnson Iron Horse		
Object ID:-	1113123	Accession No:-	IF:2016:76
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-			
Made In:-			
Status:-	Not Running		
Condition:-	Fair		



Object:-	Villiers Mk10		
Object ID:-	1113122	Accession No:-	IF:2016:75
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-			
Made In:-			
Status:-	Not Running		
Condition:-	Fair		



Object:-	Remains of Homelie generator		
Object ID:-	1113121	Accession No:-	IF:2016:74
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-			
Made In:-			
Status:-	Not Running		
Condition:-	Fair		



Object:-	Unknown		
Object ID:-	1113120	Accession No:-	IF:2016:184
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-			
Made In:-			
Status:-	Not Running		
Condition:-	Fair		



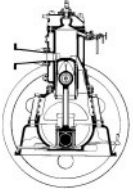
Object:-	Earlier Villiers Mar-Vil		
Object ID:-	1113119	Accession No:-	IF:2016:72
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-			
Made In:-			
Status:-	Not Running		
Condition:-	Fair		



Object:-	Later Villiers Mar-Vil		
Object ID:-	1113118	Accession No:-	IF:2016:71
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-			
Made In:-			
Status:-	Not Running		
Condition:-	Fair		



Object:-	Lauson, RSC		
Object ID:-	1113117	Accession No:-	IF:2016:70
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-			
Made In:-			
Status:-	Not Running		
Condition:-	Fair		



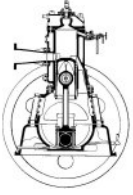
Object:-	Scott or Jowett PA/PAB		
Object ID:-	1113116	Accession No:-	IF:2016:69
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-			
Made In:-			
Status:-	Not Running		
Condition:-	Fair		



Object:-	Johnson Iron Horse		
Object ID:-	1113115	Accession No:-	IF:2016:68
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-			
Made In:-			
Status:-	Not Running		
Condition:-	Fair		



Object:-	Alco Featherweight		
Object ID:-	1113114	Accession No:-	IF:2016:67
Date:-		Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-	Arthur Lyon and Co Ltd		
Made In:-	London, England		
Status:-	Not Running		
Condition:-	Fair		



Object:-	Onan		
Object ID:-	1113113	Accession No:-	IF:2016:66
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-			
Made In:-			
Status:-	Not Running		
Condition:-	Fair		



Object:-	Marconi Douglas Flat Twin
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Object ID:-	1113112	Accession No:-	IF:2016:65
Date:-	1914-01-01	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-	Douglas Motorcycles		
Made In:-	Bristol, England		

Description:-
Horizontally opposed twin cylinder four stroke petrol engine. Buit to power Marconi radio sets during WWI

Status:-	Not Running
Condition:-	Fair





Object:-	Vincent T5AM 500cc Marine Engine
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Object ID:-	1113111	Accession No:-	IF:2016:64
Date:-	1944-01-01	Works Number:-	44
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-	Vincent Engineers (Stevenage) Ltd		
Made In:-	England		

Description:-
Opposed piston lifeboat engine

Status:-	Not Running
Condition:-	Fair



History:-

2016-07-29

23rd August, 1945.

REPORT ON SEA TRIALS OF VINCENT H.R.D. MARINE ENGINE NO. T5AM/X/2.

Following the acceptance test carried out on 26/7/45, engine No. T5AM/X/2 was installed in the Air Sea Rescue Lifeboat No. CE.9 at the yards of Messrs. Uffa Fox, Cowes, I.O.W. Preliminary trials were run under A.I.D. observation and measurement on 3/8/45, with a 12" diameter x 8 3/4" pitch propeller over a half-mile course in the Medina River. Times for the distance were recorded by stop-watch and fuel consumption measured by time taken to consume 1/2 pint of M.T.72 petrol from a gravity tank. Engine r.p.m. were determined primarily by "Hasler" counter, secondarily by "Smith" tachometer which was found to compare accurately with the Hasler readings. Propeller r.p.m. equals 5/7 of the engine speed with the particular reduction-gear ratio employed.

At full throttle, the engine could turn the propeller at 1520 r.p.m. with a heavy increase in fuel consumption but no increase in speed over that given at 1430 r.p.m. and a stop was fitted to the throttle lever, limiting the r.p.m. to the lower figure.

Further tests were conducted over the same course on 4/8/45 and 7/8/45, on each day conditions were similar, weather being sunny and warm and water smooth although tide conditions were not precisely identical.

At the end of trials, the engine-hatch was filled with water, up to deck level and the engine was started up and run for approximately 1/4 hour, the bilge pump removing approx. 1 gal. per minute during that period.

The results are summarized in the table below, each speed being the mean of two runs opposite directions.

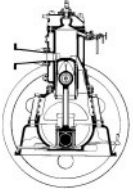
The boat was then taken to the open sea off St. Catherine's Point to test its behaviour under rougher conditions. With a fresh breeze and a moderate sea on 9/8/45, propeller speed reached 1415 r.p.m. with the throttle setting which had previously given 1430 r.p.m. this being to some extent due to the engine running cooler than before owing to the absence of a hatch cover. At the reduced speed of 5.3 knots, the engine ran so cool that intermittent misfiring occurred, which was cured by re-setting the water-temperature control valve. Fuel consumption at this speed was measured with the engine below its correct temperature; the results recorded (not under A.I.D. observation) are given below.

The boat was then taken through a heavy swell which appeared to have no adverse effect on the running. When coasting

down the slopes of long waves, the r.p.m. rose at times from 1430 to 1500 r.p.m. On 11/8/45 the boat was used to pick up a rubber dinghy and parachutes, thus simulating conditions when rescuing a ditched crew, and on all occasions the engine was restarted with ease.

Table 1

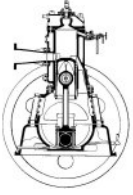
Date	Engine r.p.m.	Propeller r.p.m.	Speed(knots)	Time to use 1/2 pint fuel	Range with 50 gals fuel
3.8.45	1214	868	4.3	17m20s	924



<td>7.8.45<td>1350<td>965<td>5.071<td>13m47s<td>932
<td>4.8.45<td>1400<td>1000<td>5.228<td>14m57s<td>1019
<td>7.8.45<td>1415<td>1010<td>5.302<td>14m31s<td>1026
<td>3.8.45<td>1740<td>1245<td>6.000<td>8m11s<td>655
<td>7.8.45<td>1740<td>1245<td>6.210<td>7m49s<td>649
<td>4.8.45<td>2010<td>1430<td>6.871<td>4m40s<td>427
<td>7.8.45<td>2010<td>1430<td>6.912<td>4m37s<td>425

Table 2

<td>Enginer.p.m.<td>Propellerr.p.m.<td>Estimatedspeed knots<td>Time to use1/2 pint fuel<td>Range with50
gals fuel
<td>1980<td>1415<td>6.02<td>5m17s<td>480
<td>1425<td>1018<td>5.33<td>13m27s<td>955





Object:-	Petter PU2C
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Object ID:-	1113146	Accession No:-	IF:2016:190
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Petter Collection		
Manufacturer:-	Petters Ltd		
Made In:-	Yeovil, England		

Description:-
Petter horizontally opposed single cylinder petrol/single compressor cylinder

Status:-	
Condition:-	Unknown



Object:-	Petter PU8
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Object ID:-	1113147	Accession No:-	IF:2016:191
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Petter Collection		
Manufacturer:-	Petters Ltd		
Made In:-	Yeovil, England		

Description:-
Petter horizontally opposed twin cylinder petrol engine

Status:-	Not On Display
Condition:-	Unknown



Object:-	Petter PU2
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Object ID:-	1113148	Accession No:-	IF:2016:192
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Petter Collection		
Manufacturer:-	Petters Ltd		
Made In:-	Yeovil, England		

Description:-
Petter horizontal petrol engine

Status:-	Not On Display
Condition:-	Unknown



Object:-	Petter A1
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Object ID:-	1113149	Accession No:-	IF:2016:193
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Petter Collection		
Manufacturer:-	Petters Ltd		
Made In:-	Yeovil, England		

Description:-
Petter single cylinder vertical petrol engine

Status:-	Not On Display
Condition:-	Unknown



Object:-	Norman T600
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Object ID:-	1113150	Accession No:-	IF:2016:194
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-	Norman Engineering Co. Ltd		
Made In:-	Leamington Spa, England		

Description:-
Norman T600 air-cooled twin in carrying frame

Status:-	Not On Display
Condition:-	Unknown



Object:-	Enfield 350cc Opposed Twin
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Object ID:-	1113151	Accession No:-	IF:2016:195
Date:-	0000-00-00	Works Number:-	
Category:-	Engine		
Collection:-	Internal Fire Core Collection		
Manufacturer:-			
Made In:-			

Description:-
Enfield air-cooled twin in carrying frame

Status:-	
Condition:-	Unknown