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This is the Elliot Bay  
Triple Expansion  
steam engine running  
for the 1st time on

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steam. The camera seems to pick up the high-frequency noises far better than in reality. Most of the noise comes ...

Triple expansion engine - Modelengineeringwebsite.com  
Website(s) for Reliable Steam Engine. Ben is a friend of mine who

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also has plans. One of them is for a 10HP Steam Engine Click or Tap here and we'll take you to his site

## LOBNITZ Triple Expansion Marine Engine - PRESTON SERVICES

The reciprocating engines were of the triple-expansion type with one high-



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pressure cylinder, one intermediate-pressure cylinder, and two low-pressure cylinders.

The Parsons's turbine, which was fed by exhaust steam from the reciprocating engines, was a low-pressure reaction type.

GGLS's Marine Triple-Expansion Steam

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Engine In Operation

13 Comments to

□How to time a Model  
Triple Expansion

Steam Engine□ ... Hi

Steve, I am not sure  
what you are asking. I

have no direct  
experience with the

Stuart triple. In

general Stuart  
castings and plans

are excellent, but

when I look at photos

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of the Stuart triple and the Bolton 9 triple I am happy that I went with the Bolton 9.

How to time a Model Triple Expansion Steam Engine ...  
During his retirement he built some 35 steam engines, 2 steam bicycles, and a steam car. You can see his work here.

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Threads 5 Messages

25. Threads 5

Messages 25. Bob J's

No.15 - Red Vertical

Rocking Valve Engine

with Governor ... All of

the old steam engine

engravings have been

moved into this

section. Threads ...

COMPOUND TRIPLE

EXPANSION ...

EB Triple Expansion

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Engine Project Page

This made the 4-cylinder triple-expansion engine popular with large passenger liners (such as the Olympic class), but was ultimately replaced by the virtually vibration-free turbine (see below). The image to the right shows an animation of a triple

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expansion engine.

The steam travels through the engine from left to right.

Model of a triple expansion marine steam engine - MAAS

...

LOBNITZ Triple Expansion Marine Engine £ 18,000.00. A large and impressive triple expansion

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steam engine by  
Lobnitz of Paisley,  
Scotland. built in 1957  
and possibly one of  
the very last  
reciprocating marine  
engines made in the  
UK. Approx. 1,000  
H.P. with cylinders  
13" + 22" + 34" x 22"  
stroke. This engine is  
15 Ft long x 6 Ft wide  
x 12 ...

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Elliot Bay Triple

Expansion steam  
engine running

Vertical engines came  
to supersede almost  
every other type of  
marine steam engine  
toward the close of  
the 19th century.

Because they became  
so common, vertical  
engines are not  
usually referred to as  
such, but are instead



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referred to based upon their cylinder technology, i.e. as compound, triple-expansion, quadruple-expansion etc. The term ...

build steam engines -  
The Home Shop  
Machinist & Machinist  
...

Agree with Maryak - if  
history and

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thermodynamics  
teach us anything - a  
compound action  
triple expansion is the  
most efficient use of  
steam on a  
reciprocating engine.  
Almost all marine  
applications went this  
way before the switch  
to turbines. Why the  
interest in efficiency ?  
Ken

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Marine steam engine  
- Wikipedia

On 20MAY2012, the  
Liberty Ship SS  
JEREMIAH O'BRIEN  
set sail for a  
champaign toast to  
the Battleship IOWA  
(BB-61) as it began its  
journey to San Pedro  
to become a museum  
there. Due to high  
winds ...

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Triple Expansion  
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This is a short video  
of the first run of the  
Bolton9 Model Triple  
Expansion Steam  
Engine, which I have  
been building on and  
off over the past 3  
years. The video is a  
bit shakey, because it  
is taken on my hand  
held phone while I am

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using the other hand to operate the controls. I really did not expect the engine to work!

Triple-Expansion  
Steam Engine Model -  
San Francisco ...

A compound steam engine unit is a type of steam engine where steam is expanded in two or

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more stages. A typical arrangement for a compound engine is that the steam is first expanded in a high-pressure (HP) cylinder, then having given up heat and losing pressure, it exhausts directly into one or more larger-volume low-pressure (LP) cylinders.

Multiple-expansion

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engines employ  
additional ...

Reliable Steam  
Display the progress  
made in designing  
and manufacturing a  
2 3/4" + 4 3/8" + 6  
1/2" x 4" triple  
expansion marine  
steam engine based  
on castings produced  
by the Elliot Bay  
Steam Launch Co. of

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Portland US: Assist the builders of steam engines in general by describing and showing methods of manufacture of various components.

Triple Expansion  
Miniature Steam  
Engine |

johnsmachines

The triple-expansion engine was largely



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superseded in commercial use by the more sophisticated steam turbine engine shortly after the turn of the 20th century. The type had a final resurgence in the Liberty Ship freighters of World War II. Some 2,200 Libertys were equipped with triple expansion engines,

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chosen for their  
relative ease of ...

Triple expansion engine - The Full Wiki  
In the back of this are the complete working drawings for a full sized triple expansion engine made by Simpson, Strickland and Co., Dartmouth, England. Details are HP Cylinder 3.5", MP

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cyl, 5.25" and low  
Pressure 8"

Reciprocating Engine  
Details Plans of the  
Olympic Class ...  
Model, triple  
expansion marine  
screw steam engine  
with revolution  
counter, metal,  
counter manufactured  
by The Veeder  
Manufacturing Co,

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Hartford, Connecticut,  
USA, model maker  
unknown [Australia /  
United Kingdom], date  
unknown, (A A  
Stewart Collection) A  
working model of  
triple expansion  
marine screw engine  
with a single link  
reversing valve  
motion.

Most efficient steam

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engine design? |  
Home Model Engine

...

The makers of old did not make steam engines the way they did because they knew no better; their methods and materials remain the best way today, with few exceptions. The engine to the left is the Elliott Bay triple

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being lowered into the Elliott Bay fantail hull owned by David Porter of Sunset Beach, California.

Compound steam engine - Wikipedia  
The triple expansion engine is a popular project for model engineers with time available. This example is by D

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Lidster and was shown at Doncaster in 2016. The triple expansion marine engine model designed by O.B. Bolton is one of the iconic designs of model engineering.

Steam Engine  
Design, Construction  
and Preservation  
I have no degree, only

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thirty years  
experience working  
with reciprocating  
steam engines for a  
living. I agree that  
42% is way too short  
a cutoff for full power  
operation of this plant,  
and that 60% to 65%  
was the more  
traditional cutoff used  
in triple expansion  
marine engines.



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