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International Journal of Advanced Research in Mechanical and Production Engineering and Development

Volume:

COMPRESED AIR VEHICLE WITH HYDRALIC CONTROL

(BLENDING OF FUEL)

By

A.ESROME NOBLE RAJ

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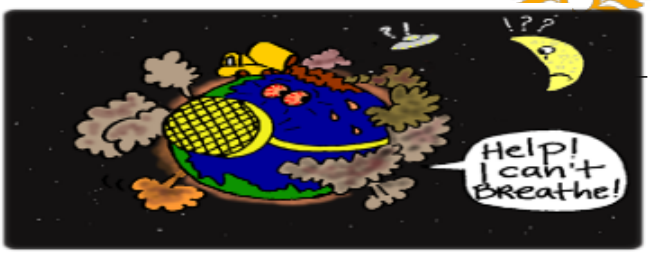
INTRODUCTION



*IN THIS WORLD USAGE OF VECHILE CONTINEOUSLY INCRESSED.

*THE SCIENTISTS&ENGINEERS ARE RESEARCHED AND SOLVE A PROBLEM OF POLLUTION (GLOBAL WARMING).

*INTRODUCED MANY PROBLEMS.

*NATURAL RESOURCES ARE DECRESED CRITICAL LEVEL.

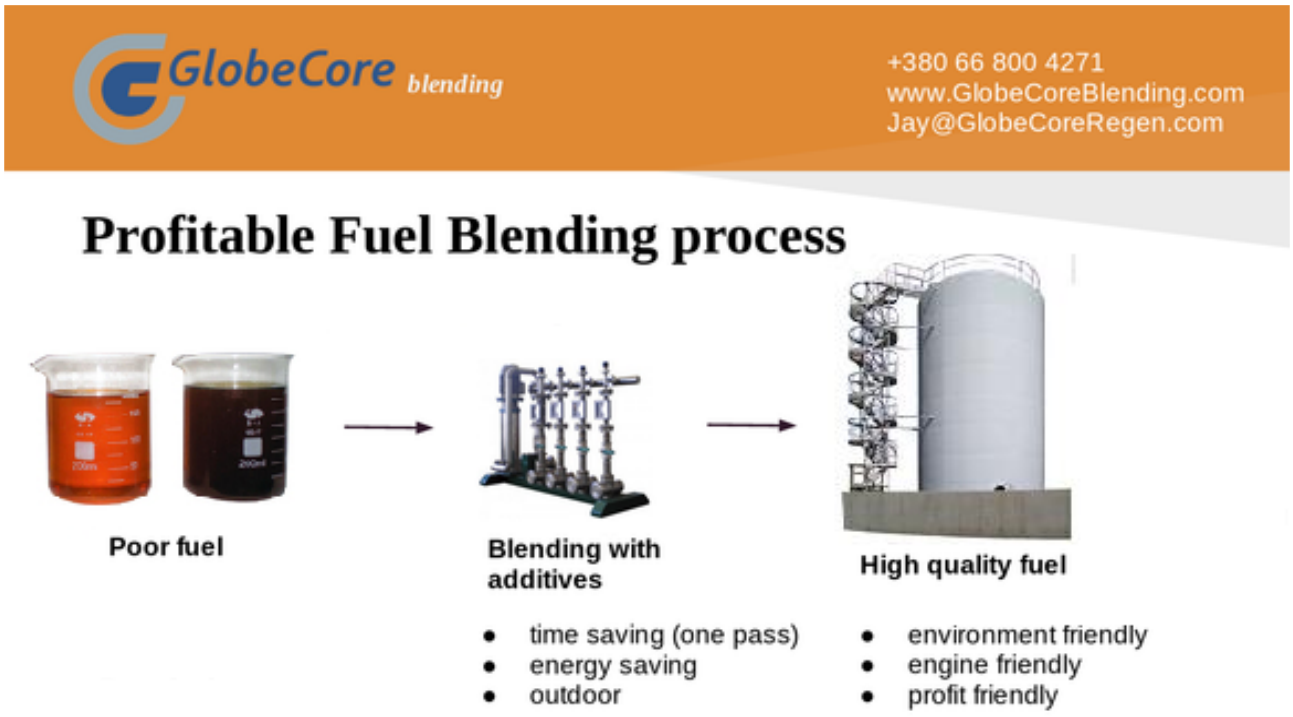
BLENDING OF FUEL

*Blending Amounts of Alternative fuel with conventional fuel is an important Option for reducing petroleum consumption

TYPES

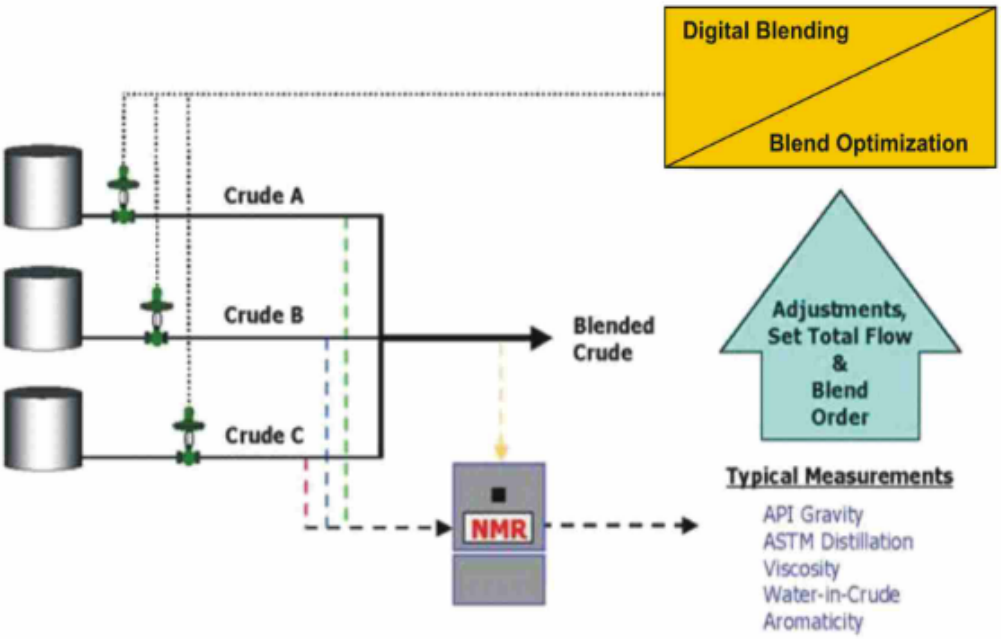
*Ethanol Blends
*Low-Level Biodiesel Blends
*Biodiesel (B20 and above)
*Hydrogen/Natural Gas Fuel Blends

BLENDING OF FUEL



INCRESE FUEL CONSUMPTION

Figure 3 - **Crude Oil Blending**

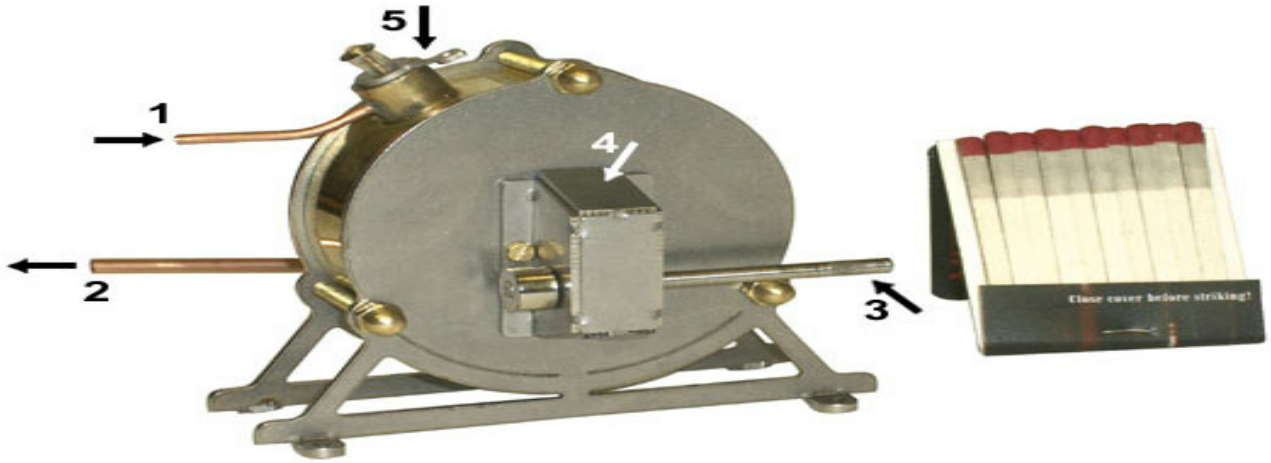


DID U LIKE 3-RD WORLD

*USAGE OF FUEL IT CAN WAY TO WORLD WAR.

STEAM TURBINE

*A steam turbine is a device that extracts thermal energy from pressurized steam and uses it to do mechanical work on a rotating output shaft.



EFFICIENCY

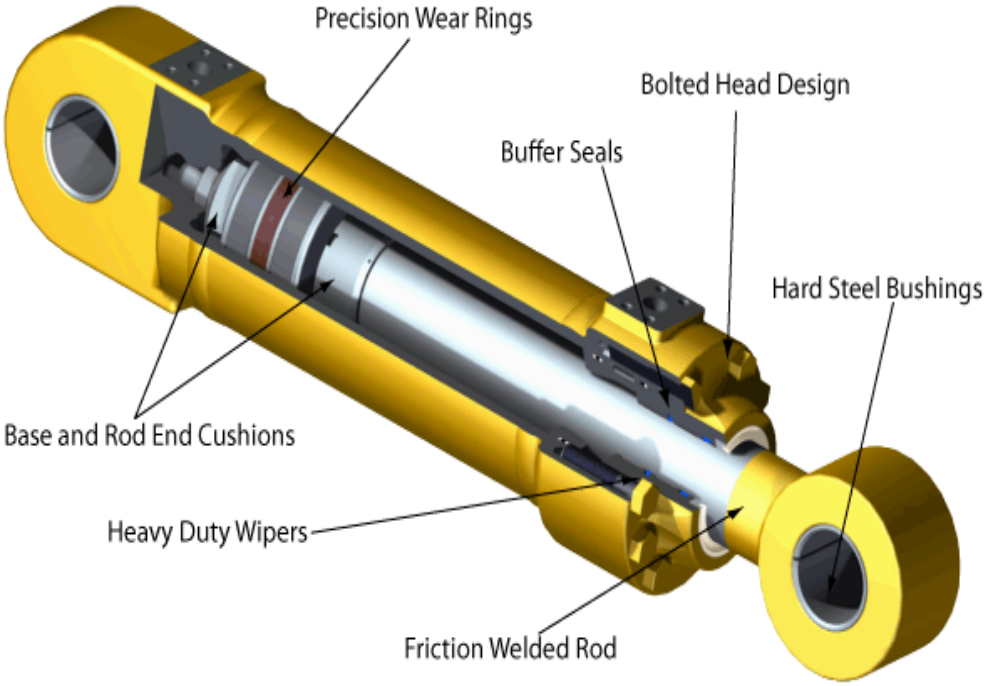
*steam turbines have thermodynamic efficiencies that vary from 65% for small (under 1,000 kW) units to over 90% for large industrial and utility sized units. Small, single stage steam turbines can have efficiencies as low as 50%.

HYDRALICS

*properties of liquids or fluids.

*hydraulics are used for the generation, control, and transmission of power by the use of pressurized liquids.

HYDALIC CYLINDER



MODEL PROJECT

*THIS PROJECT MAINLY USED FOR TOOLS

*STEAM TURBINE *CYLINDERS -2

*PRESSURE GAUGE-2 *GATE VALVE-3

*AIR PUMP *COPPER TUBE 3Mtrs

*Reducer cu pipe *hydralic setup
*WHEELS-4 *BODY -120-158"

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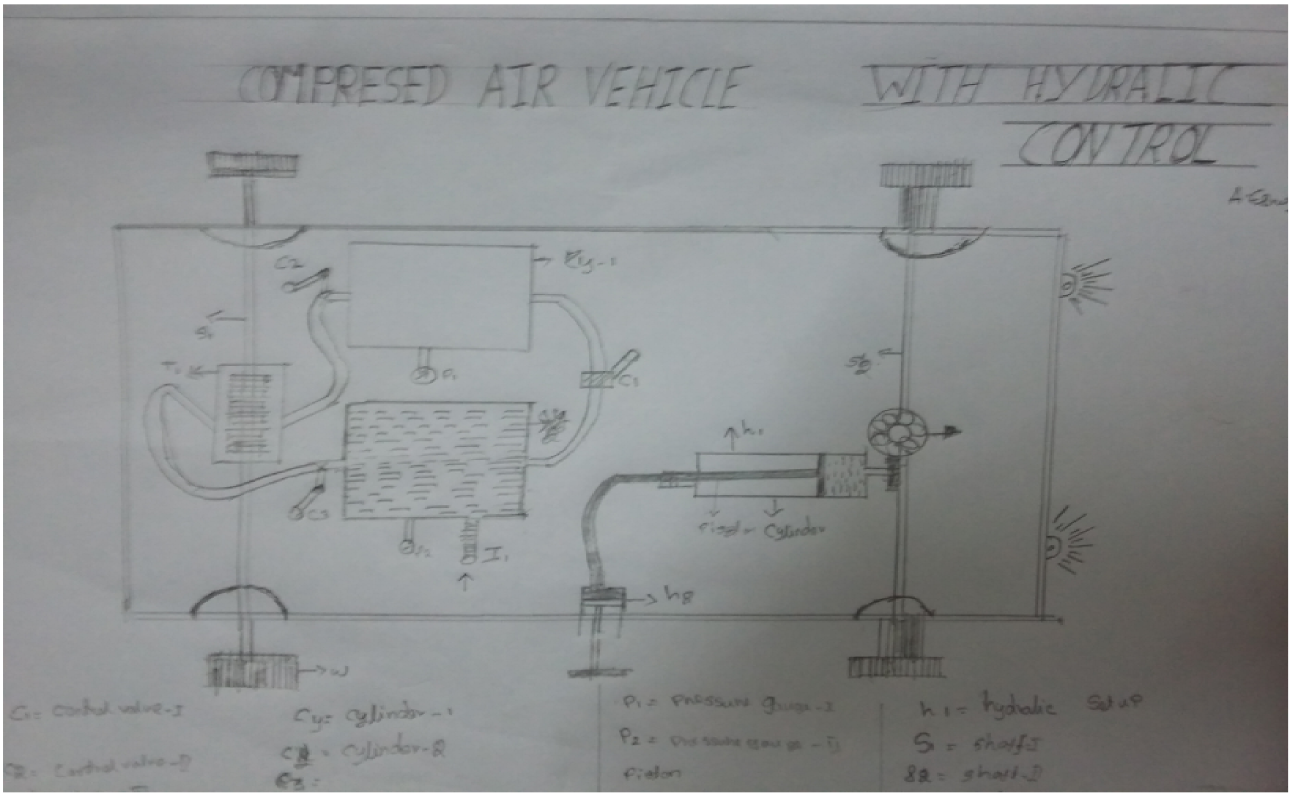
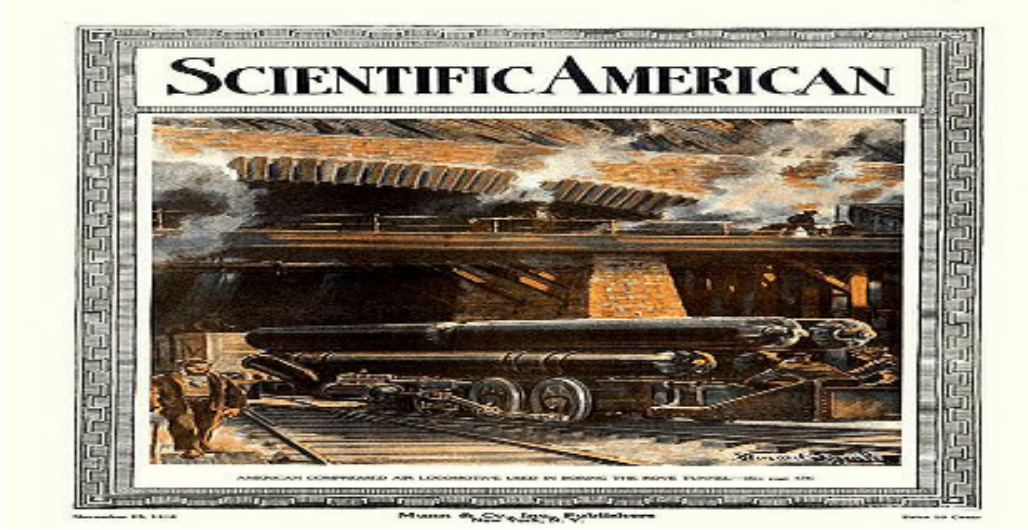


PRATICAL APPLY

*Compressed-air locomotive used in boring the Rove canal tunnel in France



ADVANTAGES

*Compressed-air technology reduces the cost of

vehicle production by about 20%, because there is no need to build a cooling system, fuel tank, Ignition Systems or silencers.

*The engine can be massively reduced in size

Low manufacture and maintenance costs as well as easy maintenance.

DISADVANTAGES

*THE LIMITED WEIGHT CAN BE TRANSPARET DONE.

*speed is slow.

*AIR RECYCLEING PROCESS THE CYLINDER CAN BE HEATED.

*BRAKE POWER CAN'T SUFFICIENT.

CONCLUSION

*SAVE FUEL SAVE WORLD ,AND USE BLENDING OF FUELS.

*DON,T POLLUTES THE EARTH.

*REDUCE THE USE OF NATURAL RESOURCES.

OUR EARTH


Space - Akash
Air - Vayu
Earth- Prithvi
Fire - Tejas
water - Jala
SAVE OUR EARTH


THANK YOU