

Biofuel production Machine

"ECOPRO"

Eco Globe 21 Project

ECOPRO

Advanced Bio Diesel Fuel Producing Machine



Alternative Energy of the Future!

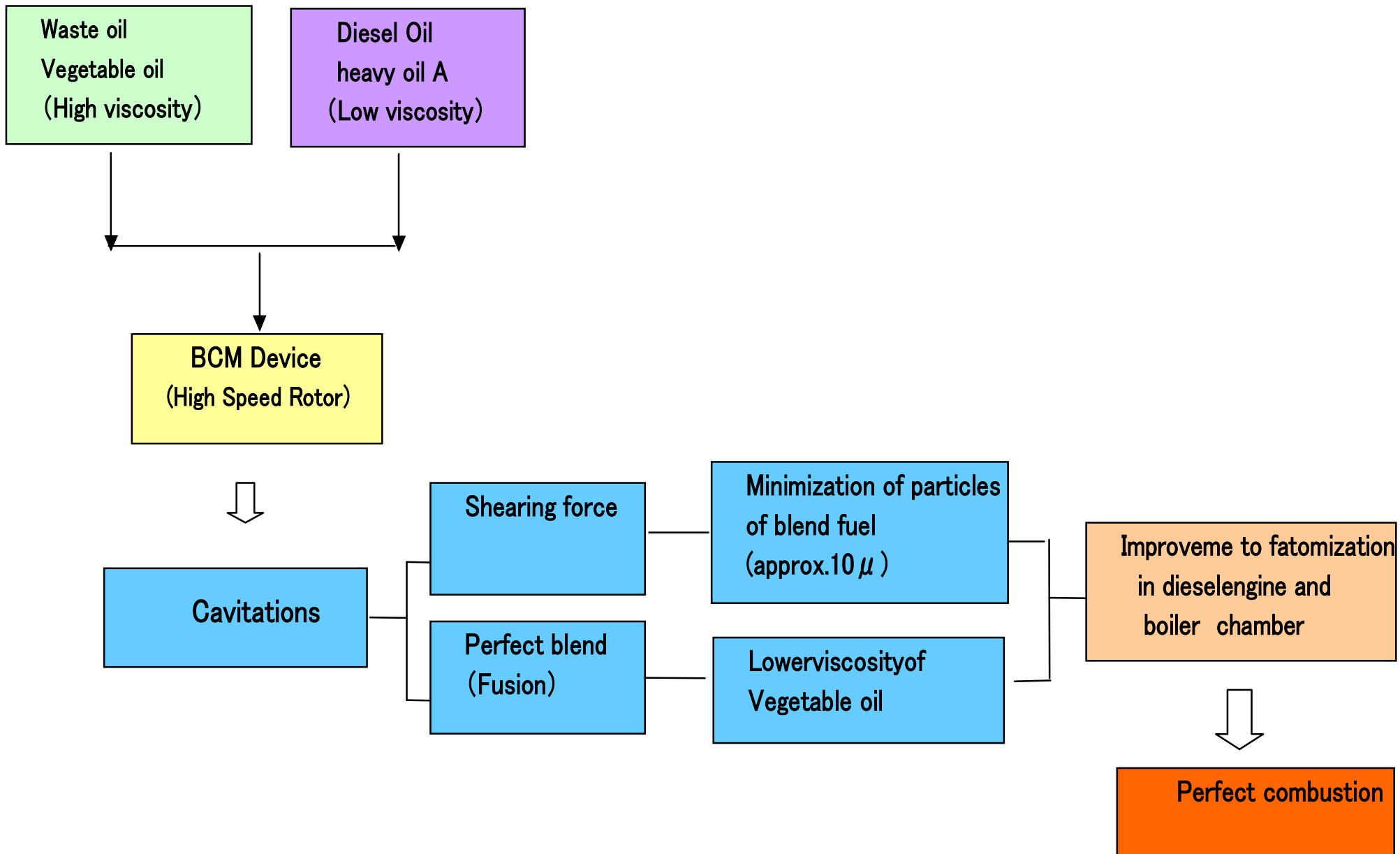
- Refracts vegetable oil, used vegetable & engine oil, used plastic thermal dissolution oil, Palm oil, Jatropha oil, etc
- Less CO₂ emissions
- Less by-products
- Easy to operate
- Environmental friendly
- No chemicals, catalyst, or water washing.

ECOPRO

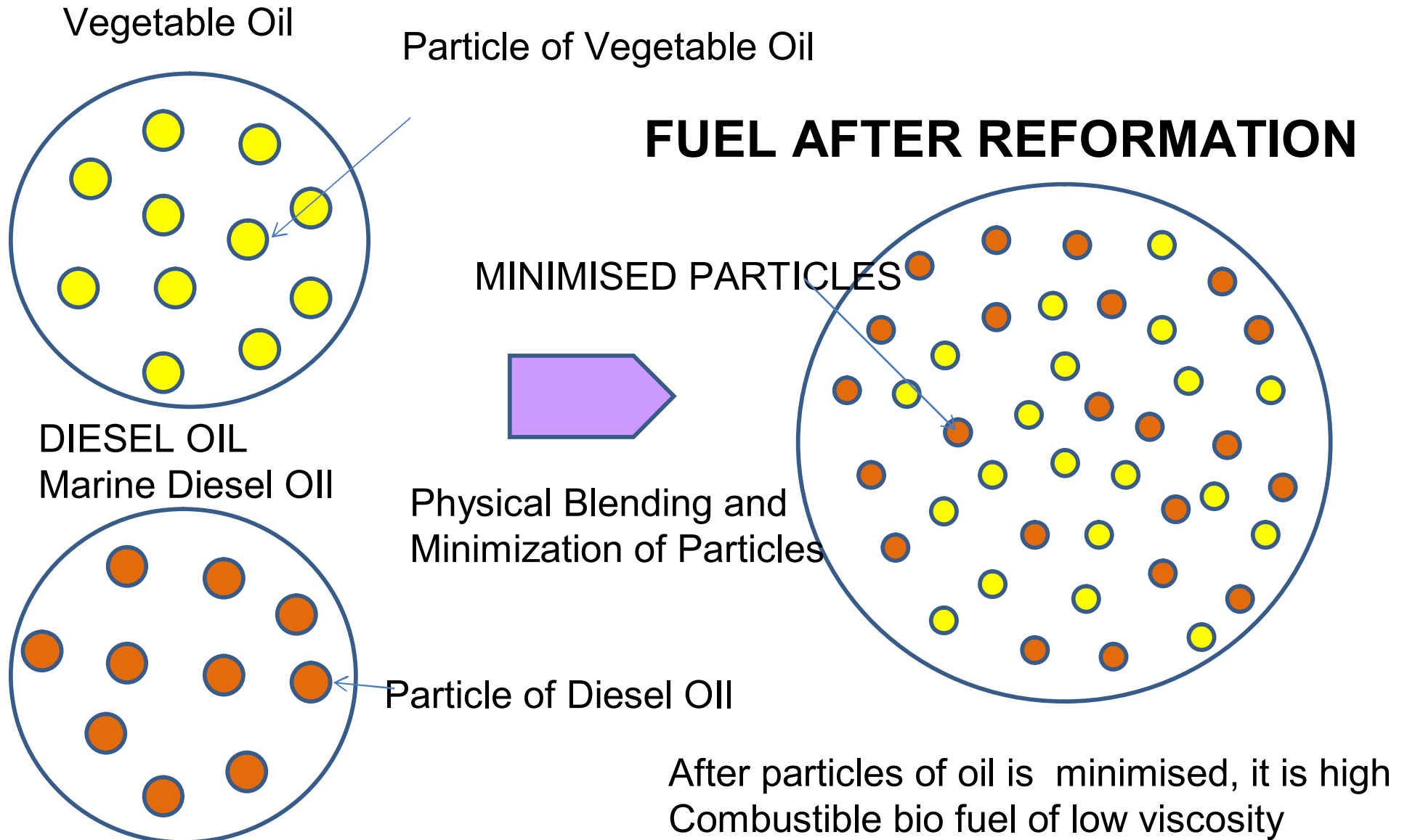
- **Dimension: 1.1m height x 0.7m depth x 1.33m length (Incl. legs)**
- **Capacity: 500lit per hour**
- **Power consumption: 3 phase, 200V, 5.5Kw.**

ECOPRO Technology

- Shearing Force through special Rotor
- Lowers Viscosity
- Minimize Particles
- Produce High Combustion Fuel



Fuel Oil Reformation Process



Final Product : ECOLU

Jatropha oil 100%

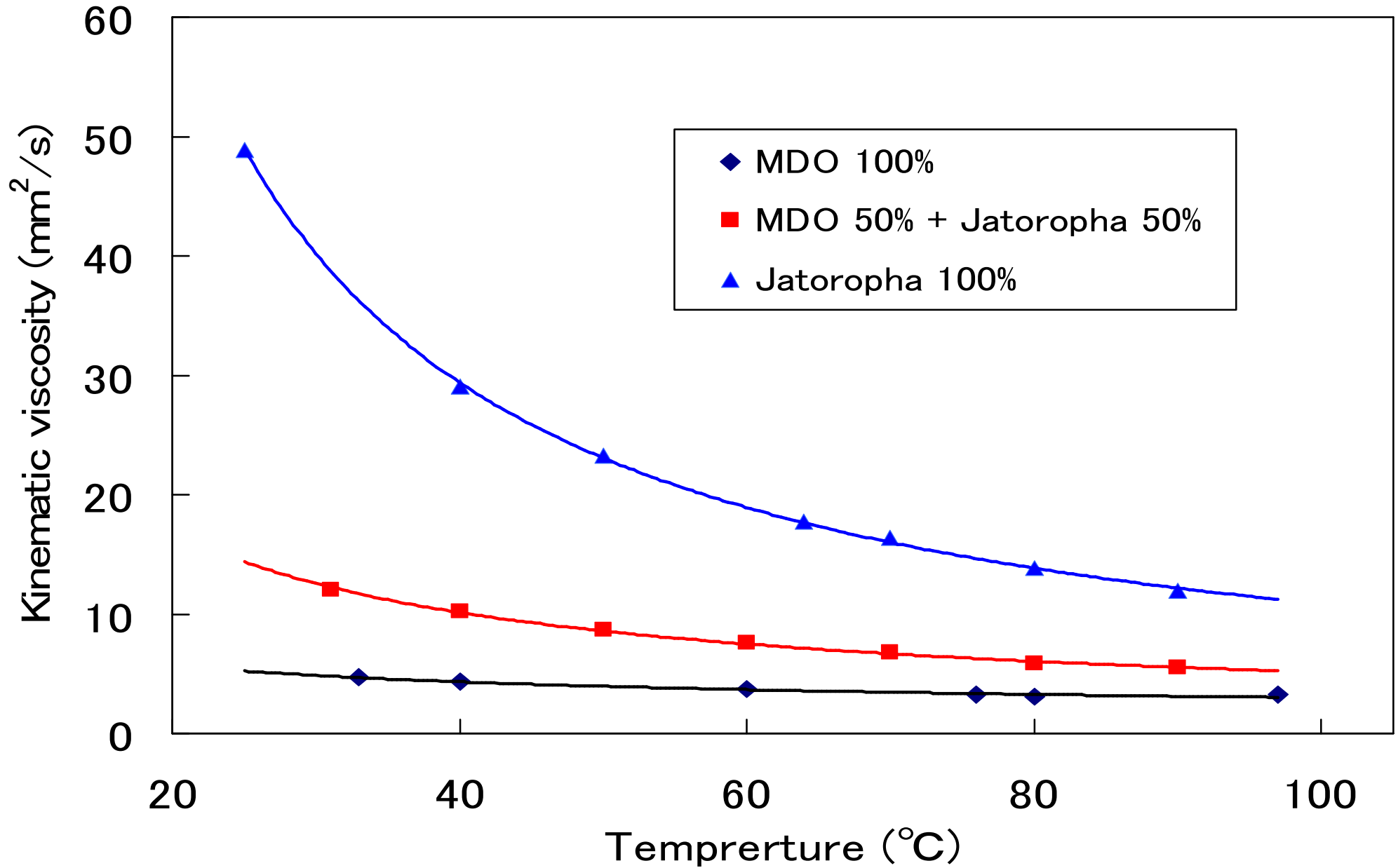


**Blend of heavy oil A 50% +
Jatropha oil 50%**

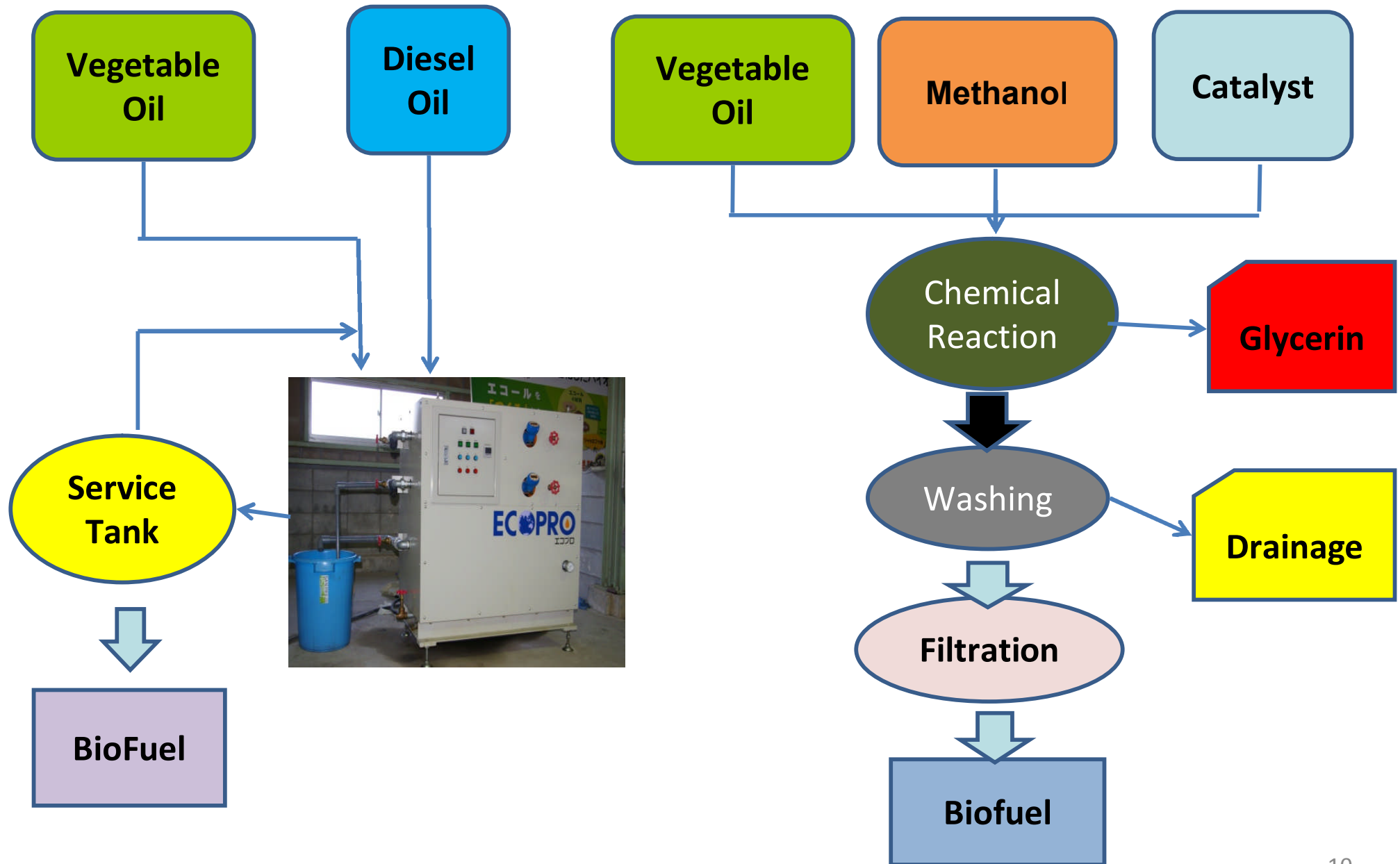


Kinematic Viscosity

MDO=Heavy oil A



Ecopro VS Esterification method



ECOLU : Uses

- **Industrial steam boiler**
- **Co-generator**
- **Engine generator**
- **Heater**
- **Fishing Boat engine**
- **Tractor**
- **etc**

Bio fuel for high speed diesel engine (car and lorry etc.)

international standard by "methyl esterification method".

Due to the high plant cost, and also its high running cost (Cent 20-30/lit), most of the plants in Indonesia and Malaysia are not in operation. In Europe, it is used with diesel cars, but is only possible by subsidy granted by Governments

Technology to support **ECOPRO**

A collaboration for 25 years with Kobe University of Mercantile Marine (existing Kobe University)

- Association of American car engineer
article announcement**
- Japanese internal combustion machine
organization learned society announcement**