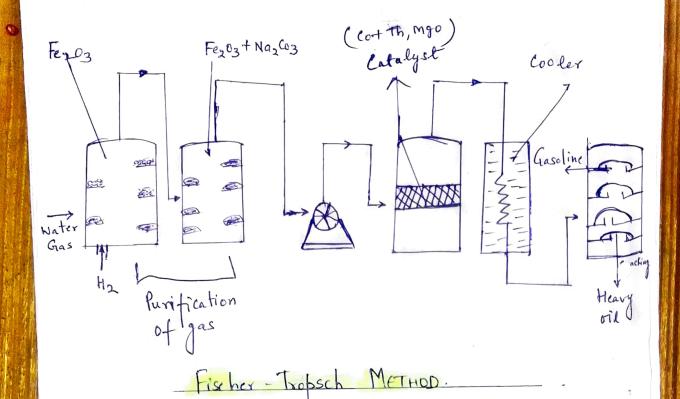


METHODS OF PRODUCING SYNTHETIC PETROL FROM PETROL Can be synthesized by following methods; 1) Fischer-Tropsch Method. 2.) BERGIUS METHOD. 1.) Fischer Tropsch METHOD: > A.) The raw material is heated coke, which is converted into water gas (CO+H2) by bassing steam over coke C+ H20 12000 CO+ H2 B.) It is then purified by passing first through Feg 03 (to remove Hzs) & then to a mixture of Fe203 + NagCo3 (to remove Organic Sulphur Compounds) () The burified gas is then compressed to 5-25 atm & then passed through a convertor at 2000-30 in presence of catalyst (mixture of cobalt(co), Thorium (Th), Magnesia (Mgo). A mixture of Saturated & unsaturated hydro-Carbons is formed. 9.) nco + 2n H2 ----> CnH2n+ nH20 n co + (2n+1)H2 -> CnH2n+2 + nH20 The Conde oil obtained is fractionated to yield i) Grasoline (Petrol) (ii) Heavy oil.



## INDUSTRIAL Applications of lubricants !->

- In machines, for cutting & granding of metals.
- In internal combustion engines.
- Animal & Vegetable oil used in Scientific instrument watches, sewing machines etc.
- use of synthetic lubricants in air-craft engines 4.)
- Grease, a semi-solid lubricant used in railway
- 6.) Use of Rubniants like graphite, Soap-stone in railway track joints.