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solo source of liquid fuel:-

the oil is derieved from the following four different sources including crude petroleum.

- (i) crude oil
 - (2) Oil Shale
- (3) Coal far fuel, and
- (4) synthetic oil or hydrogenation of coal
- (i) crude betroleum: the crude betroleum. is available in different part's of the world but unlike wal, they do not differ in composition widely.

- The chemical composition of crude betroleum vary within narrow limits as given in table.
- on The Crude oil is a mixture of hydrocations, paraffin, define of naphthalene, Asomtic and asphaltic compound's ranging from simplest gaseous member methane to complex wave's and bitomen.
 - the average chemical composition of crude oil: +

 C= 83-87%, H=10-14%, N=0.1-2%, 0=0.1-1.5%.

 8= 0.5-6%, Metal's < 1000 ppm, with presence

 of organic compounds.
 - (11) oil shale? these are sedimentary rock's,
 imbregnated with oil, these are recovered
 imbregnated with oil, these are recovering oil is
 the cost of recovering oil is
 by rock mining. the cost of recovering oil is
 by rock mining. Crude oil, and therefore
 higher than conventional crude oil, and therefore
 thigher are loss least exploited.
 - Resources of the world but bigger deposits of many parts of the world but bigger deposits of many parts of the global deposits of are found in America. The global deposits of are found in America. The global deposits may oil shake are estimated these deposits may oil price a sound 3 thillion hassels. These deposits may a found 3 thillion hassels.

· Application's a the oil shale as much can be used for burning (like coal) to generate steam. Used for broduced from oil shale can be used the oil produced from oil shale can be used for combustion.

Environmental Issues 2— the exploitation of oil

Shale has initiated several environmental issues

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like ground water contamination by Acids, presence

like ground water contamination during

of mercury and ground water contamination during

mining, sulphor, emission during landowning etc.

(iii) Coal far fuel (CTF): Generation as a by-product: Coal far is obtained during coke making process as
a by-product Valatile fraction. The coal carbonization done at low temp (1700c) yield semi-cake and at two temps tar, called low temps tar, as by product in Addition to coke over gas as transition of observation product for the production of chemical fortilizer the high temp. (1200c) by product coke making process gives metallurgical coke as mount for product Along with coke over gas and tar (high temp. Far) as by - product.

Ansa crude oil distrillation fractions and their use: Boiling Romze Use Distillation pressure fuel, reduction S.N Fraction Distilled in DRI Below 30 under reduced pressure 1. Natural gas Engine Fuel 30-200 Aviation Atmosphenc. 2. Gasoline (petrol) 30-150 Automobile Avaiation petrol 40-180 Heavy Engine Motor petrol 110-200 vaponzing oil Organic - 120-250 solvent for cleaning 3. solvent stant Heavy Above 180 vechicle ful 4. Dissel fuel for, Vac. distillation
Above
200 ship and industrial 5. Light fuel oil fuel for About _ 0/0-6 Heary Fuel industria 250 furnaces