Gas-electric car coming

There may be a hybrid car in your future. It would operate electrically on short cay runs and run in conventional gasoline-powered way on the highway. The idea of dual power systems was used by diesel-electric submarines. But it's a new idea on land.

land.

The first vehicles have been produced. The biggest problems have been limited range and unacceptably high, weight.

A Troy firm. Electric Fuel Propulsion Corp. is producing an automable which carries its own power plant in a trailer.

American Moters Corp. is producing an electric truck for the United States Postal Service.

The truck is being used experimentally by the postal service in San Bernardino, Calif.

DR. LAWRENCE J. Giacoletto, who holds the patent on the electronic ignition, said a hybrid car with acceptable performance would be highly marketable. If the price were at #2per-pound, Giacoletto began research in electric cars, in the 1930s while working at the Ford Motor Co. securific laboratories in Dearborn, before moving to Michigan State. University.

Cycle air rules expected soon

Motorcycles are next on the list for Environmental Protection Agency rules on air pollution. The first official signal, a router of proposed ruleman and the protection of the pollution of the Potential Register correlation of the Register C

antipolitical and a converters produce so much heat that they might burn a rider on a cycle

There is much less room than under a car hood for adding extra

under a car nois for adding extra equipment.

Solutions that sometimes lead to one or two cylinders quitting, which do not stop a car, will keep a cycle from running.

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He sees a medium sized hybrid electric car as one with a curb weight, with four passengers and baggage, at 3,000 pounds. The car itself would weigh 2,250 pounds, with 1250 in the chassis and 1,000 pounds for energy storage and energy con-version.

version. He sees the electric part as \$50 pounds of storage batteries corresponding to 7,800 wait bours of correy. In addition the car would have a pound 30 horsepower DC motor to operate for 80 miles at 20 miles an bour, 40 miles at 40 miles an bour, and 20 miles at 50 miles at 60 miles at 60

burr, and 20 miles at 60 miles an hour THE GASOLINE part would be a 60 pound 50 horsepower. high-performance gasoline engue with a 40 pound 25 horsepower DC generator, and a 12.5 gallon tank for gasoline for 412500 watt hours of potential energy. The generator would drive the car and recharge the batteries under favorable travel conditions. Reserved for electrical controls of hybrid operations would be another 25 pounds. The MSU professor also noted experimental vehicles in use on the MSU campus, an electric back designed by two professors and an electrical W bus redesigned by an MSU student.

Car's oil a clue to engine health

A regular monthly analysis of a vehicle's oil can give an accurate reading of the health of its engine, transmission and differential Increasingly, large fleet owners such as track lines are signing up for the regular inspections which cost from \$2.0 st.50 per analysis and can save, advocates in-six many times that amount. "It will clearly show the first signs of excessive wear, which would mean an upcoming failure," said Robert Ming, project engineer for Coterpillar Tractor, one of the companies offengisch analytical services through its dealers. "This will let you make correctings or schedule a repair."

repair.

OTHER FIRMS selling such readings include Of International ILC Natting Test Labs. Wearcheck Analysts and Faber Labs. They say that, on the average, about 80 per cert of the oils amples they analyze show that there should be some change in the vehicles maintenance makine, and that in one of six of those instances the problem is so immediate that some repairs should be made at one.

A thorough analysis will cleek for fuel distinction, water antifreeie and give a reading on the amount of such elements as copper from timed, alumnum, nickel, chromium and silicone in the oil.

Jum Bald, maintenance expert at "Fleet

feao, auumnum, maniferance expert at "Fleet Owner" magazine, is a staunch supporter of oil analysis "Periodic oil sampling and analysis is an excellent way to monitor the condition of the lightness of the said.

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