Engine Temperature Affects Efficiency And Economy

most of which must be dissipat- Champion Spark Plug Coma molten mass of iron!

Engines can't run ice cold, Heat is a by-product of en- however! A certain amount of ergy. In converting fuel to en- heat must be retained for the ergy, internal combustion en- efficient production of energy, gines generate a lot of heat, advise service engineers of

ed or the engine would end up pany. Maintaining coolant temgrees F for liquid-cooled car, create problems. truck and tractor engines seems

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zation and complete combustion. from a fuel consumption stand-Water jacket temperatures point and uneconomically as operate higher than 120 degrees.

peratures around 160-180 de- that run too far below or above far as internal parts wear is concerned. Unfortunately, parti-When engines operate on the cularly in cold weather months,

> In that situation, partial combustion is common Raw, unburned fuel works past the pistons and not only dilutes crankcase oil, but wipes essential lubrication from the cylinder walls as well. This hastens cylinder, ring and piston wear. What's worse is condensation in the crankcase that never boils off because of the prevailing low engine temperatures. Diluted and contaminated oil shortens bearing life diastically if allowed to continue.

The number one cause for low engine temperatures is short trip driving where the engine never has a chance to warm up before it is switched off. In the case of farm tractors, it results from using the tractor on light loads where the engine, because of its very large cooling system capacity, never works hard enough to build up proper temperatures.

Other causes could be faulty thermostats that are stuck in a partially open position. Naturally, coolant can't be held in the block long enough and therefore extends warm-up time.

Since most vehicles today use warning lights, a low temperature won't show, normally However, symptoms to look for include consistent, poor fuel economy, and spark plugs whose tiring tips will have a black or sooted appearance Plugs like these could, depending upon mileage, be cleaned, regapped and reinstalled However, it's possible that in some cases the next hotter spark plug would work satisfactorily to avoid carbon fouling from too cold an engine.

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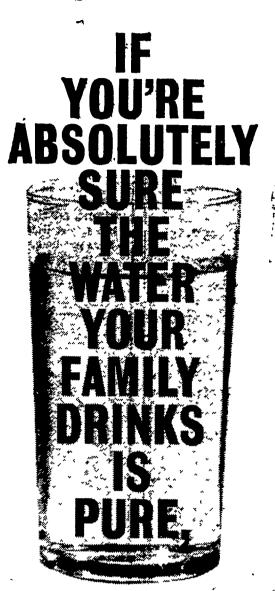


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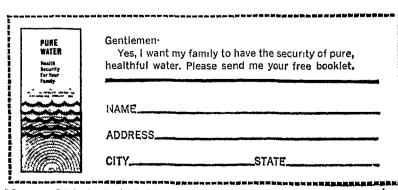
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