



**THE SCENIC WONDERS** of a continent, once only available to the wealthy and the adventurous, can be enjoyed by virtually any family with a car. A sure investment in an exciting, trouble-free vacation this spring and summer is a car that is kept in optimum condition. Good maintenance will help keep the gasoline bill as low as possible as well as avoiding unexpected trouble that takes the fun out of trips.

## Car's condition can yield fuel savings

Little things, particularly in terms of car maintenance, can mean a lot in terms of fuel savings. To prove the validity of the above statement, Shell Oil Company embarked on tests of procedures that could save the average car owner nearly three months worth of gasoline annually.

### How much care

How much proper care and prudent driving habits can save in fuel was the answer Shell sought in its tests. Here's what Shell engineers did and what they found:  
A typical company car was taken and put into shape where gasoline waste was probable. The engine was placed slightly out of tune with ignition timing retarded and carburetor idle set too fast and rich.  
Radial tires on the car were replaced by ordinary tires and air pressure was lowered from the proper 24 pounds to 19. Wheel alignment was altered and the wrong weight of motor oil was installed.

**Group of drivers**  
A group of 23 drivers was employed to drive the cars so altered and the group averaged 13.6 miles per gallon. Once the cars were put back into proper shape, the test was conducted again. This time, mileage averaged 15.6 m.p.g. — a two mile per gallon improvement.

**Driving habits**  
Drivers involved in the test were given specific tips on how to maneuver their cars for best fuel mileage, as follows:

1. Accelerate gently without actually creeping away from the stop.
2. Anticipate stops and take your foot off the gas pedal, coasting to the intersection.
3. Keep your speed moderate. The most economical speed is 35 miles per hour. Never exceed 55 miles per hour.
4. Get into high gear as quickly as possible for the most economical performance. Even with automatic

transmission, one can get the feel of shifting.  
Shell reports that the combination of good car condition and careful driving made the average m.p.g. 16.8. That was a 23.3 percent improvement or a savings of nearly three months worth of gasoline.

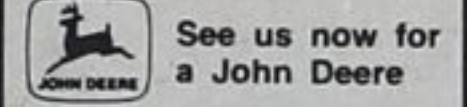


### John Deere Snow Blowers



Two power models to handle any snow-clearing chore

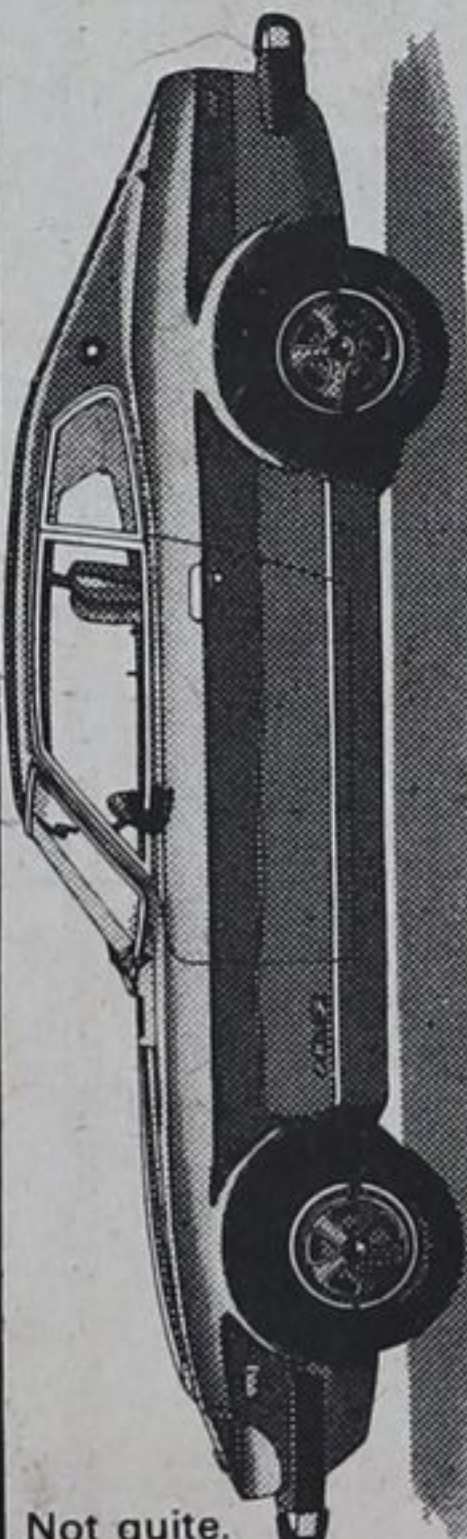
A John Deere Snow Blower makes snow removal fast and easy. The 7-hp model cuts a 26-inch path. The 9-hp model, a 32-inch path. Both models have five speeds, plus reverse. And a pressure-activated safety clutch. Two-stage design with 16-inch auger.



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## Make sure windshield wipers are in shape for use in bad weather

As with so many other vital components on your car, your windshield wipers are most likely to fall just when you need them the most — like during the next storm.  
In the summer, heat, smog, and even your service station attendant's windshield washer spray are working together to reduce the efficiency of your wiper system. It's no wonder, after sitting quietly on your windshield and

deteriorating day-in and day-out, that they often fail to do their job.

**Check when raining**  
The best time to check your windshield wiper system is during a rainstorm. Or you can check it the next time you go through a car wash. You can also perform a good check while someone sprays your windshield with a garden hose.

### Another Car Care Quiz . . .

## What you should know about cooling system

The higher cost of anti-freeze is giving motorists cause for more than a casual thought to the care of their cars' cooling systems. To help answer a few common questions (and some not so common) about this vital system of the car, Automotive Cooling System Institute asks a few.

1. Only purpose of the radiator cap is to keep the anti-freeze from spilling out.  
(T) (F)
2. When the fan belt starts chirping or squealing it should be greased.  
(T) (F)
3. The cooling system boils over at 212 degrees F. (100° C.)  
(T) (F)
4. You'll find up to 6 different types of fluids in most cars.  
(T) (F)
5. Radiator hoses never need replacement so long as they show no signs of leakage.  
(T) (F)
6. A cool running engine is more efficient than one that runs hot.  
(T) (F)
7. You can keep using the same anti-freeze for years if you add

However you choose to check your wipers, you should check them on both the fast and slow speeds.  
If any trouble symptoms are present, you should replace as much of your wiper system as is necessary to eliminate the problem. In many cases, all that is needed are new squeegees (the rubber parts that contact the windshield).

**Replace both blades**  
When you do replace all or part of your wiper blades, make sure you replace both sides at the same time. If one wiper is shot, it's a good bet the other one is about to go, too. Safe vision during hazardous road conditions is too important to risk for a few dollars.  
Here are five visible or audible indicators that will signal the need for attention to your windshield wipers. Clear driving vision is especially im-

portant during the bad weather season. Check for the following signs of malfunctioning:

1. **STREAKING** — arcs of unwiped moisture within the wiping area.
2. **HAZING** — a thin, hard-to-see-through film covering most or all of the wiping area even after the blade has just been wiped.

3. **CHATTERING** — a "stuttering" motion of the blade accompanied by a "chattering" noise as the blade sweeps across the windshield, with some areas left unwiped.

4. **SCALLOPING** — a ragged outer edge in the wiping pattern.  
5. **RATTLING** — no visible signs of problems, but the wiper blade sounds as if it were very loose. Can be reduced or eliminated by switching to polycarbonate blades.

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### Correct answers to Car "Cool" test

Correct answer is FALSE in every case. Here's why.

- 1) The radiator cap seals the radiator to build up and maintain pressure in the system. Pressure caps weakened with age and should be checked seasonally.
- 2) Never put oil on a drive belt. While belt dressing or special lubricant designed for this purpose often will serve as a temporary cure for a squeaking belt, the noise usually is due to a glazed surface on the belt contacting the pulley. If the belt makes a clicking sound, look for a crack. Play it safe and replace noisy belts.
- 3) Water boils at 212 degrees Fahrenheit (100° Celsius). Antifreeze in a pressurized system, however, will not boil below 276 degrees F. If it is of the correct proportion.
- 4) There are ten fluids in most cars. You'll find them in the engine crankcase, transmission, rear axle, brake system, power steering system, cooling system, battery, wind-

shield washer reservoir, air conditioner and dust but far from least) the gas tank.

5) False, again! Don't wait until a hose starts leaking to replace it. After about three years of average driving hoses generally have deteriorated to a point where they soon could be spewing expensive anti-freeze all over the highway. Preventive replacement in time is the answer.

6) Neither too cool nor too hot an engine is efficient. But without a temperature gauge on the instrument panel it's difficult to determine whether or not your engine is running too cool. If your car is losing power or burning more gas than it used to, it may be due at least in part to a faulty thermostat that fails to keep the system up to temperature. Another clue: a heater that's not putting out as it should.

7) Don't believe it. Antifreeze is a composition of many chemicals, some of which deteriorate with age and use. Antifreeze-coolant should be replaced seasonally as part of complete system maintenance.

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