AUTO SENSE

Keep Differential Lubricated

By Williamson







The differential is a rather compli- | should develop in this device. cated device designed to deliver the car is making a curve and the outer wheels are required to turn faster than those on the inside. Just how the differential works is of no particular importance to the average man, for it is difficult to get to and it is usually more economical to take the car to a garage if trouble is kept filled to the proper level with making a heavy pull. The adjust- refilled with fresh grease.

lubricant, the wear on the pinion; ment on most cars is made by an However, it is important to under- and ring gears will be excessive, adjusting bolt on the drive shaft, stand the way the power is trans- causing what is known as a "lash." just ahead of the axle housing. same power to each wheel when the mitted from the shaft to the differential gets noisy, makes In lubricating the differential, ential. There is a pinion on the a dull hum, and lost motion is no- never use a solid grease, such as is rear end of the drive shaft which ticed in moving the car back and used in filling grease cups. The works against a ring gear that en- forth in gear, it is usually a sign of gears will cut a path through this circles the differential gear housing | wear and play in the gears. The pin- | and leave it packed on the sides of and delivers the power directly to ion should be moved back far en- the housing. Use a heavy oil or the rear axle, except when the car cugh to make a firm fit into the grease made for this purpose. ring gear. If there is a play in ft you At least once a year, the axle and Unless the axle housing, which may break a tooth or strip a gear by differential housing should be drain-

surrounds the differential housing, engaging the clutch suddenly or ed, flushed out with kerosene and

Approval of Genuine Balloon Tires Marks Reo's 20th Year

istence the Reo Motor Car Company is voicing its approval of genuine balloon tires by making them standard equipment on its latest model, the T-6 Special Touring, and selective on all of its closed passenger models," says Mr. H. T. Thomas, vice-president of the Reo Motor Car Company.

"Thus the company again draws attention to its record in pioneering developments which at the time of announcement have seemed radica! because they were not in general

tires for many months, in its la- to develop refinements. boratories, on its test cars, and in "Among the more common in

210 DIVISION STREET

Prompt, Courteous Service

299-305 Queen FROST'S Phone 526

Auto Batteries Made and Repaired

ELLIOTT & WILLIAMSON

THE MONARCH BATTERY

leading dealers recognize its superiority, and now stock them

and recommend them to Automobile Owners and Radio Fans.

Ask for the Monarch

MADE IN KINGSTON.

Has proven its high qualities. For that reason the

When you need your Battery repaired or one made to order, al-

SELECT AUTOMOBILE PAINTING

so automobile repair work, it will pay you to see us.

of pioneer faith and seasoned judg- ized it. ment of the men who have guided Reo through twenty years.

"Contributing consistently toward the permanent betterment of its own product and all others in general Reo has enhanced its reputation for progressive engineering. In the same measure it has built up an experimental department and engineering organization virtually without parallel in the industry.

This department functions "Reo has been testing balloon fully to prevent mistakes as it does

conjunction with tire manufactur- provements which Reo pioneered in

mulated when it pioneered pneuma- oping or popularizing in the face specified point.

tures so commonly used now as to diator, consisting of core and shell tance. be taken for granted, lies the story was almost unknown. Reo popular-

broughout the industry concerning its suitability for American road

equipment, and has since watched its general use by the industry. Dual foot control was also made standard of passenger trains! with Reo that year; it is still used. "In 1911 Reo pioneered the cen-

"At a time when electric starting and lighting systems were little more than a curiosity, in 1913, Reo adopted both as standard equipment and did much to prove their necessity on vehicles of all classes.

"Reo pioneered pneumatic tires for trucks by fitting them regularly can't reach the car as fast with a full to the speed wagon in 1915. adding electric starter and lights, it became first to make this equipcial vehicles. "In that year it also introduced

on its cars the oval-tube radiator, transmission speedometer, successful use of lynite or aluminum alloy

"Reo is largely responsible for the general use of the spiral bevel gear axle, also.

"There are many other features. some of major importance in the chassis, and others related to shop practices, which have helped the industry at large fully as much as Reo alone. Ample returns its investment in broad-visioned engineering are being enjoyed by Reo to-day in the form of remarkable the speed," is going to push it along public confidence and stability of dealer connections."

POOR JUDGMENT CAUSE OF MANY ACCIDENTS

The Brakes Alone Cannot Stop be stopped effectively. Three other esan Automobile Within a Required Distance.

ers. Data and facilities Reo accu- the sense of either creating, devel- pressure, to stop before reaching a

tic tires for trucks in 1915 have of contradicting practices, the fol- And even less can figure correctly been used in many of the tests. lowing are interesting examples: | the speed to which they can pick up "In the twentieth year of its ex- "Back of many automobile fea- "Before 1905 the two piece ra- within a certain limit of time or d

For proof of these assertions the Interstate Commerce Commission has is-"In 1909 Reo adopted left hand sued Accident Bulletin No. 87, coverdrive in the midst of a controversy ing largely railroad accidents, but including in it crossing accidents where motorists are mostly concerned.

According to this report, which cov-"In the same year Reo adopted ers 1922, the latest year for which there the dry disc clutch as standard are complete returns, 122 persons were killed and 911 others injured as a result of vehicles running into the sides

Drivers to Blame. Most of these "freak" accidents may be blamed to:

1. Trying to beat the train to the crossing, and

2. Poor judgment. Motorists who try to speed up before the train "gets there," forget the important consideration that they car as they could without an extra passenger. The pickup is much slower. And once started, with a full car, ment standard on strictly commer- drivers forget that they can't stop so easily. In fact, speed is even a more

important consideration in stopping. The belief might prevail that the difficulty in stopping a car increases merely in proportion to the speed, Builder Claims Easier, Quieter, The fact is, other things being equal, it increases with the square of the

No Sudden Stop.

Besides speed, momentum, or the weight behind the car, declivity and condition of the road have much to do with the stopping of a car.

No matter how hard the brakes are applied, even if the wheels are locked, the car's momentum, increasing with until it comes to a definite halt.

The shortest distance at which car, with two brakes, can stop on a good, level, non-slippery road, shown in the accompanying diagram. But it takes more than speed to determine the distance at which a car can sentials must be considered. They are: 1. Brakes must be in perfect condi-

tance and time must be accurate.

Balloon-Tired Reo Sedan ~ ~

Che shock-absorbino Gualities of air- cushioned travel supplement the planned comfort of toppedu roominess, restinviting action and a liberal wheelhase.

Brute endurance is built into the double-framed chassis to make the comfort permanent. o 'e o

Boyd's Garage Ltd. 129 Brock St.

Ree Meter Car Company of Canada, Limited Windsor, Ontario +

FABRIC BODY PUT AHEAD OF METAL

REO

The Reo Line

Brougham

Touring Rea

Touring Reo

All mounted on the distinctive Reo double - framed chassis, and powered with the famous Reo 50 h. p. 6-cylinder engines

Coupe

Sedan

T-6 Special

Standard

Lighter Riding for New Type.

Automobile bodies of fabric construction in place of sheet metal have been tested and found serviceable.

This is the report made to the Society of Automobile Engineers at New York by K. L. Childs, president of a corporation manufacturing fabric auto bodies. After driving a fabric body car 20,000 miles under all kinds of road and climatic conditions, Childs

makes these claims: 1. Fabric bodies are quieter than equivalent metal bodies, eliminating most of the drumming and runtbling sounds encountered in sedans.

2. Fabric bodies average from 25 to 110 pounds lighter than correspond.

ing metal bodies. 3. They can be cleaned more easily than the painted metal bodies, becouse the fabric coating is hard and withstands abrasion.

4. All panels are made in sections, so that any part of the body that may happen to be dented or injured can be removed without distributing the rest of the body or any of the interior

The last feature, Childs says, has led insurance companies to insure fabric bodies at a lower rate than metal

At the same time, he adds, construction of fabric bodies is easier, speedier and cheaper. In the end it may mean a reduction of at least 15 per cent in the body costs of cars.

City population of 56 per cent own 70 per cent, of the autos in the United States. There are almost as many motor

vehicles in the United States as there are telephones.

More than half of New Zealand's 44,000 miles of highways are hard surfaced.

Connecticut manufacturer has a wire fence for keeping auto drivers from going over precipices.

There are fourteen different kinds of taxes that some taxi companies have to Attractive

Donse BROTHERS

Special Type Cars

Easy Riding

in the Province of Quebec. Drain the crankcase often to keep undiluted oil in it. We Can Regrind

Average motorist is said to waste

There are more than 60,000 autos

25 per cent, of his gasoline power.

Your Cylinders square with the base round and true with a heavy duty cylinder grinding machine, giving perfect work in every respect.

Automotive **Grinders Limited** 225 Wellington Street

Auto Tops and Seats Recovered

Side Curtains, All Kinds of Bevelled

Glass Lights

R. SINCLAIR 360 BARRIE STREET 'PHONE 1684.

CUSHIONS SLIP COVERS FORD TOPS RE-COVERED \$12.00 SEDAN TRIMMINGS

I. G. PAUL 392 Princess Street

There are fourteen different kinds of taxes that some taxi companies have to pay.

During 1923, 25 per cent. more was spent in maintaining old cars than in buying new ones.



IRAK CRISIS LOOMS-Negotiations over Mosul oil seem to have broken down through the refusal of the inhabitants of Irak, a British mandate, to ratify a treaty with Great Britain. Irak apparently wants independence, and is likely to appeal to the league of nations for relief. —

Prices for labor on grinding valves and cleaning out Car-

6 cylinder \$8.00 -4 cylinder \$5.00 Chevrolet with 4 cylinders

..... \$8.00 Ford Cars \$8.00 Cars without removable heads

or old models: 6 cylinder \$10.00 4 cylinder \$6.50 Chevrolets and Fords, rear axles, labor \$6.00.

See us and get our prices and know what it will cost before placing your order.

85 MONTREAL STREET PHONE 2544w.

Have your Closed, Car cleaned by VACUUM at

272 Bagot Street We are prepared to Saver Car-

them from moths:

pets and Furniture and save

HYSLOP BICYCLES and all kinds of repairs.

72 BAGOT STREET Telephone 542.

