

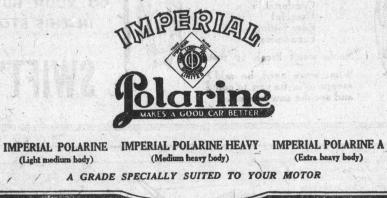
Imperial Polarine Pays Because It Saves

ANY motorist, who keeps a record of his car expenses, can quickly satisfy himself that Imperial Polarine pays because it saves-because it saves not only gasoline, new piston-rings, spark plugs and other repairs, but also depreciation.

Imperial Polarine makes a good car better, keeps the motor in perfect tune, thoroughly lubricated against excessive wear and break-downs. It provides an unbreakable oil film which lubricates every friction surface-makes a perfect piston-ring seal and saves wear on moving parts.

What grade is best suited for your car? Do you know? Look for the Imperial Polarine Chart of Recommendations, on display wherever Imperial Polarine is sold, and learn the grade specified-use this grade exclusively and get the utmost service.

Four-gallon and gallon steel cans, steel half-barrels and barrels, also steel 121/2-gallon kegs-for sale by dealers everywhere. Buy in large containers to save money.



IMPERIAL OIL LIMITED Power · Heat · Light · Lubrication

Branches in all Cities

ing squeezed out of the bearing Beyond this condition the more fluid and easier moving the oil the better. A thick lubricating film of good resisting body is needed for the line shaft of an ocean liner, but a drop of the same oil would put a watch out of commission.

of commission. Practically all the lubricants now in use are of the mineral oil foundain use are of the mineral oil founda-tion treated to free them from acid, and to improve their suitability for special purposes. Sperm oil is spe-cially good for high speed light machinery: for heavy bearings castor oil, but both are expensive. For great pressure at slow speed lard, tallow, and other solid Jubricants are suit-able. If pressure is great, and speed high, castor, sperm, and heavy min-eral oils are used. For low pressure at high speed, olive, sperm, rape and refined petroleum give satisfaction. Vegetable and fish oils are drying oils, that is, they oxidize rapidly,

Vegetable and fish oils are drying oils, that is, they oxidize rapidly, causing gumming or clogging of the bearings to which they are applied. A mineral oil does not oxidize, nei-ther does an animal oil. But mineral oils have a low fiash point: that is, they fire at a low temperature. Ani-mal oils develop fatty acids; these corrode and pit the metal they are used to lubricate. Adulterants of various kinds are added to oils and greases to give them

added to oils and greases to give them "body." Gum, soap, lime, resin, tar, soda and free acids all have their socia and free acids all nave their own distinct purpose to serve. Sim-ple tests may be applied to lubricants for quality and viscosity. To test for acid saturate a bit of cotton waste with the suspected oil, and lay it open upon the surface of polished steel or brass for twenty-four hours. If steel shows even a slight corro-sion or if the bress turns green free sion or, if the brass turns green, free acid is present. To test for gummy adulterants place a drop of oil upon a piece of glass inclined at such an a piece of glass include at such an angle as to permit it to flow gently down. If any gum, resins or other viscosity producing' elements are present, they will be apparent by the color of the oil streak, as the adul-terants deposit themselves upon the glass in the form of sediment.

A good quality of lubricant will not break down, when rubbed be-tween the finger tips, as quickly, as a poor one.

It would be economy in three ways least to use two different kinds at least to use two different kinds of oil; ecenomy of power, of machine wear, and of oil, and in addition there would be greater efficiency.----Jno. Evans, O. A. Collego, Guelph.

> Sarnia and Port Huron are growing very rapidly. There have never been such opportunities for young people who have a good training in Bookkeeping and

tion of seed polatocs; not note in-tended for human constantion. The growing of seed polatocs is better uivided into two decides, the early and the late. For growing early po-tatoes of the trish Coobier variety the seed should be selected true to two and the response from any type and free as possible from any or the various discuss which and the potato plant or tuber. Thuse should be from \$ to 12 ouncils in should be from 5 to 12 ounces in weight and cut up into pieces 2 ounces in weight with two cyes to the piece. They are planted associ-the loth of June and are given cvery possible califythem with the son in a state of high fertility; better hav-ing been clover sod well terthing d with barnyard then us of which mass been added a considerable glammers been added a considerable quantity of commercial fertilizer, about 500 tos, per acre. Thorough spraying to-control lear inscases that the Constant Beetle should be given throughout the season. For the late seed the Green Monthan or hubble Now York of is used. The phanting is sentence dong about June 1st to June 5th under similar conditions to the former. In all cases it is necessary select a soil that does not dry out during the summer time, as polatoos for seed shoths not be subjected to a check at any time curing ther growing period. An abundance of water is absolute-ly essential for thrift.

Planting Potntoes for Seed. This refers entirely to the produc-

If Miller's Worm Powders needed the support of testimonials they could be got by the thousands from mothers who mow the great virtue of this excellent medicine. But the powders will speak for themselves and in such a way that there can be no question of them. They not an additional thorawalls and "the there can be no question of them. They act speedily and thoroughly, and "the child to whom they are administered will show improvement from the first dose. m

Capt. Steinhoff of Wallaceburg, has presented that town with a park and athletic grounds of ten acres within the town's limits.

CASTORIA For Infants and Children In Use For Over 30 Years Always bears the Always bears the Signature of hat H

Stenography.

The Secretarial Course in Sattanla ma _

> gives this training. College opens for Winter Term. January 5th.

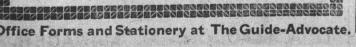


Isn't it true that you would paint your floors oftener if you didn't have to keep the house upset so long waiting for the paint to dry?

Wouldn't you do it oftener if you could paint one half of the floor one day, then move the furniture over from the other half and paint that the next day?

Well, that's just what you can do with Lowe's Hard Drying Floor Paint. This fact, together with the way it stands wear and tear is the reason it is used so much on restaurant floors and ship decks.

Come in and ask for descriptive literature.





Practical Advice Regarding Use of Machine Oils.

They Should Possess the Qualities of Adhesion and Cohesion-Mineral, Vegetable and Fish Oils All In Use-Planting Potatoes for Seed.

(Contributed by Ontario Department of Agriculture, Toronto.)

THILE possibly every care and attention is given to the mechanism of farm machinery, few, if any, give consideration to the quality of the lubricants used.

The efficiency of any power is seriously affected by poor or improper lubrication of surfaces in frictional contact, indeed, it is estimated at about 50 per cent. of the available amount of energy in useful work.

The object of lubrication is not only to reduce friction, but also to carry away whatever excess of heat may be generated, for a certain amount of work will produce a given quantity of heat, but the carrying

quantity of heat, but the carrying away of the heat is only an incidental condition, for heating of the bearing should not arise. Noils for lubricating purposes should possess two qualities—that of cohesion and adhesion. Their cohe-sive properties lie in the character of their molecules to cling to each other, and their adhesive quality to T. DODDDS & SON T. DODDDS & SON Building the intermining the intermininity interminity the intermining the intermining the i

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I have moved my Plumbing and Tinsmithing business from T. Dodds & Son's hardware store to more convenient premises 3 doors south. Your orders are solicited and will receive my best attention.

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spring—come in this week and see ours.

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See our Special Electric Sewing Machine. It's so pleasing and handy, attaches to

any light socket and consumes very little current. Same price as other models. Come in and see it-it's worth while.

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